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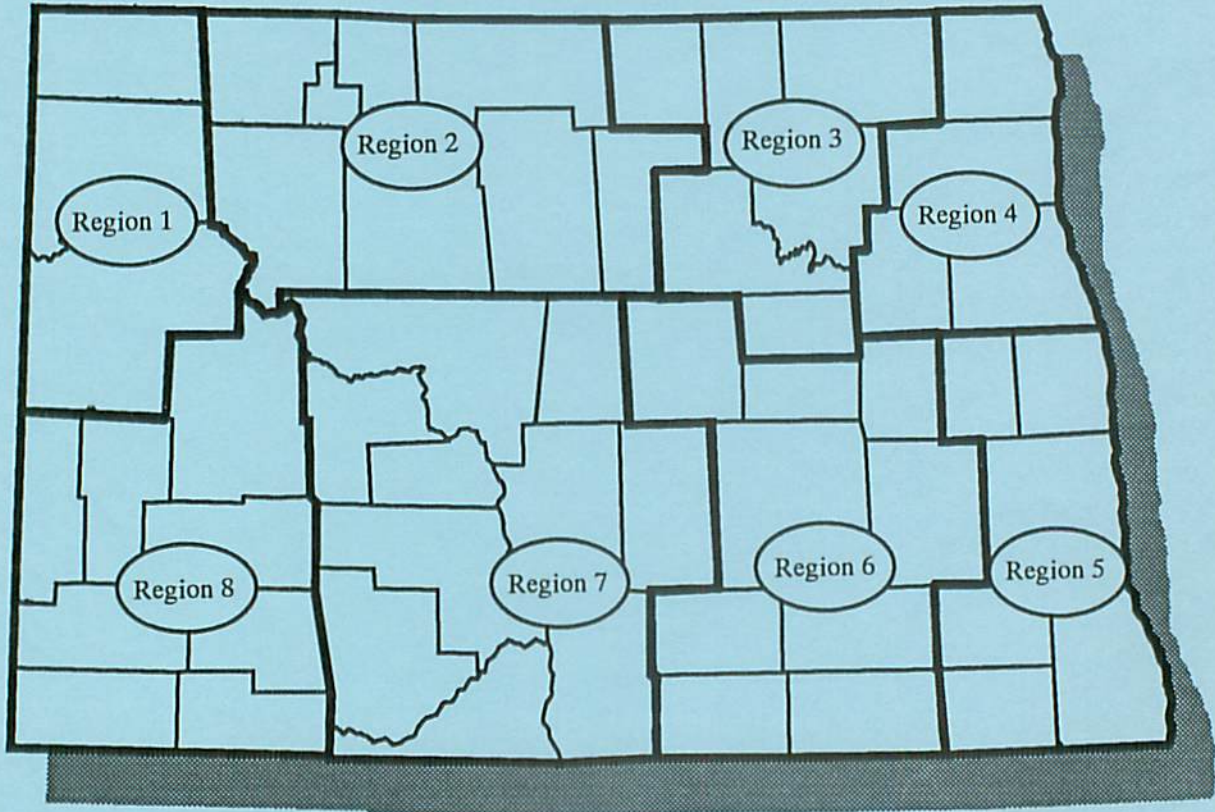
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The Economic Base of



North Dakota Counties

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The authors accept sole responsibility for any remaining errors or omissions.

Highlights

The basic sectors are central to the growth and vitality of any economic system, and current and accurate information regarding changes in an area's economic base is vital to local economic development planning efforts. This report provides estimates of the economic base by economic sector for North Dakota counties for the period 1960-1991. The data indicate that agriculture remains North Dakota's most important basic sector, accounting for 50 percent or more of the economic base in 31 of the state's 53 counties in 1991. The energy sectors play a significant role in the economic base of a number of western North Dakota counties. Energy extraction and conversion accounted for 50 percent or more of the economic base in seven counties in 1991. Manufacturing has been a growing segment of the state's economy in recent years. In 1991, manufacturing accounted for 15 percent or more of the economic base in seven counties. Federal activities have been a major source of growth among the state's basic sector activities in recent years, and transfer payments account for most of the growth in this economic base component over the past decade. In 1991, federal activities accounted for 50 percent or more of the economic base of five counties. Tourism also has been a growing segment of the state's economy, but it has not yet assumed a dominant role in any county.

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The Economic Base of North Dakota Counties

F. Larry Leistritz, Randal C. Coon, and JoAnn M. Thompson¹

The basic sectors (export industries), which sell some or all of their products or services to external markets, are central to the growth and vitality of any economic system. Their exports of products or services generate a return flow of basic income (new wealth) into the (state, regional, or local) economy. Growth in an area's basic industries is one of the two principal ways by which its overall economic growth may be stimulated; the other is through growth in industries that produce products or services that formerly were imported into the region. As communities attempt to assess current trends and plan for their future, it is critical that they have access to current and accurate information regarding changes in their basic industries (often termed an area's economic base).

The composition of the economic base of North Dakota and its substate regions has been the topic of several previous analyses (Coon et al. 1992, Leistritz and Coon 1991, Coon and Leistritz 1989). However, increased emphasis on local economic development planning efforts such as those initiated through the BUILD (Better Utilization of Investments for Local Development) program (sponsored by the North Dakota Department of Economic Development and Finance and the North Dakota University System) have reinforced the need for this information at the county level.

Objectives

This report provides county-level economic information to aid in local economic development planning, specifically estimates of the economic base by economic sector for North Dakota counties for the period 1960-1991. The data sources and procedures used to develop these estimates are briefly described, and the implications of the changes revealed by the economic base data are briefly discussed.

Procedures

The North Dakota Input-Output Model provided the conceptual and methodological framework for the analysis. For more discussion of the model, see Coon et al. (1985) and Coon and Leistritz (1989). The North Dakota Input-Output Model groups the state's economic activities into 17 industrial classifications or sectors (Table 1). These classifications are grouped into basic sector activities which are summarized in Table 2.

¹Leistritz, Coon, and Thompson are, respectively, professor, research specialist, and research assistant in the Department of Agricultural Economics, North Dakota State University, Fargo.

Table 1. Economic Sectors and Associated Standard Industrial Classification (SIC) Codes for the North Dakota Input-Output Model

Economic Sector	SIC Code
1. Agriculture, Livestock	Major Group 02 - Agricultural Production, Livestock
2. Agriculture, Crops	Major Group 01 - Agricultural Production Crops
3. Nonmetallic Mining	Major Group 14 - Mining and Quarrying of Nonmetallic Minerals, Except Fuels
4. Contract Construction	Major Groups 15, 16, 17 - Contract Construction
5. Transportation	Major Groups 40, 41, 42, 43, 44, 45, 46, and 47 - Transportation
6. Communications and Utilities	Major Group 48 - Communication, and Major Group 49 - Electric, Gas, and Sanitary Services, Except Industry No. 491
7. Agricultural Processing and Miscellaneous Manufacturing	Major Group 50 and 51 - Wholesale Trade, Major Group 20 - Food and Kindred Products Manufacturing
8. Retail Trade	Major Groups 52, 53, 54, 55, 56, 57, 58, and 59 - Retail Trade
9. Finance, Insurance, and Real Estate	Major Group 60, 61, 62, 63, 64, 65, 66, and 67 - Finance, and Insurance, and Real Estate
10. Business and Personal Services	Major Groups 70, 72, 73, 75, 76, 78, and 79 - Business and Personal Services
11. Professional and Social Services	Major Groups 80, 81, 82, 83, 84, 86, 88, and 89 - Professional and Social Services
12. Households	Not Applicable
13. Government	Major Groups 91, 92, 93, 94, 95, 96, and 97 - Government
14. Coal Mining	Major Group 12 - Bituminous Coal and Lignite Mining
15. Thermal-Electric Generation and Coal Conversion	Major Group 491 - Electric Companies and Systems
16. Petroleum and Natural Gas Exploration and Extraction	Major Group 13 - Crude Petroleum and Gas
17. Petroleum Refining	Major Group 20 - Petroleum Refining and Related Industries

Source: Office of Management and Budget (1987).

The data used in estimating the sales to final demand were obtained from secondary sources. A complete description of data sources and methods used to estimate the final demand vectors can be found in Hertsgaard et al. (1977). The final demand vectors are first estimated in terms of the prices that existed in each respective year (current year dollars). To remove the effects of economy-wide inflation and to better reflect the real growth that has occurred in the state's economy, the current dollar values were divided by the Gross National Product Implicit Price Deflator (Table 3) to convert the data to constant dollars.

Table 2. Basic Sector Activities and Corresponding Input-Output Sectors

Basic Sector Activity	Input-Output Model Sectors
Agriculture	1-- Agriculture, Livestock 2-- Agriculture, Crops
Federal Government Operations	4-- Contract Construction 12-- Households ^a
Manufacturing	7-- Agricultural Processing and Miscellaneous Manufacturing
Tourism	8-- Retail Trade 10-- Business and Personal Services
Energy	14-- Coal Mining 15-- Thermal Electric Generation and Coal Conversion 16-- Petroleum and Natural Gas Exploration and Extraction 17-- Petroleum Refining 12-- Households

^a Since 1987, the household sector has included federal payments to Conservation Reserve Program (CRP) contract holders.

**Table 3. Gross National Product Implicit Price Deflators for 1991
Base, 1958-1991**

Year	GNP Implicit Price Deflators	Year	GNP Implicit Price Deflators
1958	23.3	1975	44.3
1959	23.9	1976	46.7
1960	24.3	1977	49.4
1961	24.5	1978	53.0
1962	24.9	1979	57.5
1963	25.3	1980	62.6
1964	25.7	1981	69.0
1965	26.3	1982	73.2
1966	27.1	1983	76.0
1967	27.9	1984	78.9
1968	29.2	1985	81.5
1969	30.7	1986	83.4
1970	32.3	1987	86.0
1971	33.9	1988	88.7
1972	35.3	1989	92.3
1973	37.3	1990	96.1
1974	40.6	1991	100.0

Source: U.S. Department of Commerce (1972-1992).

Results

Sales for final demand for the input-output sectors, expressed in current-year dollars, are presented for North Dakota counties and regions for the years 1960, 1965, 1970, 1975, 1980, 1985, and 1988-91 in Appendix Tables 1-10. Sales for final demand for counties and regions by the five major basic sectors for 1991 in current (1991) dollars are presented in Table 4. Appendix Table 11 shows the sales for final demand by the five major basic sectors for counties and regions in 1960 and 1991 in constant (1991) dollars. The trends and patterns revealed by these data are discussed briefly in the following paragraphs.

Table 4. Sales for Final Demand, by Type of Basic Sector Activity, North Dakota Counties and Regions, Percent of Total and Total in Million Current Dollars, 1991

County/ REGION	Agriculture	Energy	Federal Activities	Manufacturing	Tourism	Total
	----- Percent of Total -----					- \$M -
Divide	47.5	31.0	19.0	0.7	1.7	69.9
McKenzie	20.3	67.2	9.9	0.9	1.6	270.4
Williams	16.6	39.8	31.5	6.9	5.1	307.0
REGION 1	21.5	50.3	21.2	3.7	3.3	647.3
Bottineau	35.3	24.9	34.5	3.4	1.8	174.0
Burke	42.3	21.1	32.1	1.5	3.1	68.3
McHenry	55.8	0.8	35.6	6.4	1.4	106.7
Mountrail	34.9	19.6	32.9	9.1	3.5	129.6
Pierce	50.9	0.0	39.8	6.1	3.3	82.0
Renville	40.4	34.6	23.2	0.5	1.4	88.7
Ward	13.3	0.7	66.1	12.5	7.5	594.1
REGION 2	28.3	9.5	48.9	8.4	4.8	1243.4
Benson	55.0	-	33.6	8.9	2.5	113.4
Cavalier	62.1	-	34.7	0.4	2.8	153.4
Eddy	53.3	-	44.1	0.2	2.5	48.8
Ramsey	35.3	-	54.6	1.4	8.7	176.3
Rolette	28.5	-	56.9	9.2	5.4	111.1
Towner	60.5	-	31.7	3.8	3.9	94.0
REGION 3	48.0	-	43.4	3.9	4.8	697.0
Grand Forks	22.3	-	58.0	12.8	6.9	658.0
Nelson	65.1	-	31.4	1.0	2.4	86.9
Pembina	58.8	-	25.0	15.0	1.1	274.1
Walsh	62.1	-	33.7	3.2	0.9	283.7
REGION 4	41.5	-	44.0	10.4	4.1	1302.7
Cass	27.0	-	47.6	16.7	8.7	713.5
Ransom	74.4	-	19.7	4.1	1.9	86.3
Richland	63.1	-	18.3	17.3	1.3	275.3
Sargent	57.3	-	14.9	26.8	1.0	113.6
Steele	85.0	-	13.0	0.8	1.2	60.0
Trail	72.3	-	19.5	6.7	1.5	136.4
REGION 5	46.6	-	33.1	15.2	5.1	1385.1
Barnes	60.2	-	29.6	4.0	6.2	176.1
Dickey	67.9	-	25.4	3.4	3.3	99.9
Foster	69.3	-	24.9	0.8	5.0	65.5
Griggs	72.0	-	20.8	4.1	3.1	63.5
LaMoure	74.0	-	20.8	0.8	4.4	102.3
Logan	79.6	-	18.2	0.2	2.0	53.8
McIntosh	69.9	-	25.0	2.0	3.1	64.8
Stutsman	41.7	-	32.8	16.9	8.6	288.4
Wells	68.2	-	28.1	0.4	3.3	97.8
REGION 6	60.8	-	27.3	6.4	5.5	1012.1

- continued -

Table 4. Continued

County/ REGION	Agriculture	Energy	Federal Activities	Manufacturing	Tourism	Total
	----- Percent of Total -----					- \$M -
Burleigh	8.8	-	66.4	15.5	9.3	468.2
Emmons	72.0	-	25.2	1.3	1.6	79.9
Grant	76.3	-	20.9	0.5	2.4	62.8
Kidder	74.6	-	21.6	1.1	2.7	55.1
McLean	25.1	54.6	18.3	0.4	1.6	253.5
Mercer	5.0	84.2	9.8	0.3	0.7	534.7
Morton	11.1	62.2	18.2	7.0	1.5	561.9
Oliver	15.8	75.9	8.0	0.1	0.3	126.3
Sheridan	70.9	-	27.5	0.3	1.3	38.5
Sioux	57.7	-	39.6	0.8	1.9	26.5
REGION 7	18.2	46.9	26.7	5.3	3.0	2207.4
Adams	60.1	-	35.2	1.5	3.3	33.8
Billings	7.7	86.4	2.4	0.0	3.4	179.7
Bowman	25.4	53.8	16.3	2.1	2.2	84.5
Dunn	47.2	35.8	13.0	1.0	3.0	91.5
Golden Valley	52.3	21.9	22.4	2.2	1.2	41.1
Hettinger	70.4	-	25.8	2.0	1.8	49.7
Slope	86.8	1.4	10.7	0.0	1.1	28.0
Stark	23.8	7.9	39.2	21.4	7.7	191.1
REGION 8	32.2	36.9	20.3	6.6	4.0	699.4
STATE TOTAL	35.4	18.9	33.6	7.9	4.2	9194.4

Despite the adverse weather and economic conditions experienced in recent years, agriculture remains North Dakota's most important basic sector, accounting for 35.4 percent of all sales for final demand in 1991 (Table 4). Moreover, agriculture remains the dominant component of the economic base for most of the state's rural counties, particularly in the eastern and central parts of the state. Agriculture accounted for 50 percent or more of the economic base of 31 of the state's 53 counties in 1991. In 23 of the 31 counties, agriculture accounted for 60 percent or more of the total sales for final demand (Figure 1).

The energy sectors play a significant role in the economic base of a number of western North Dakota counties (Table 4). Energy extraction and conversion activities accounted for 50 percent or more of sales for final demand in seven North Dakota counties in 1991 (Figure 2). Petroleum exploration and extraction play a dominant role in the economic bases of Billings, Bowman, and McKenzie Counties while coal mining and conversion are dominant in McLean, Mercer, and Oliver Counties. Petroleum refining is the major energy activity in Morton County (Appendix Table 10).

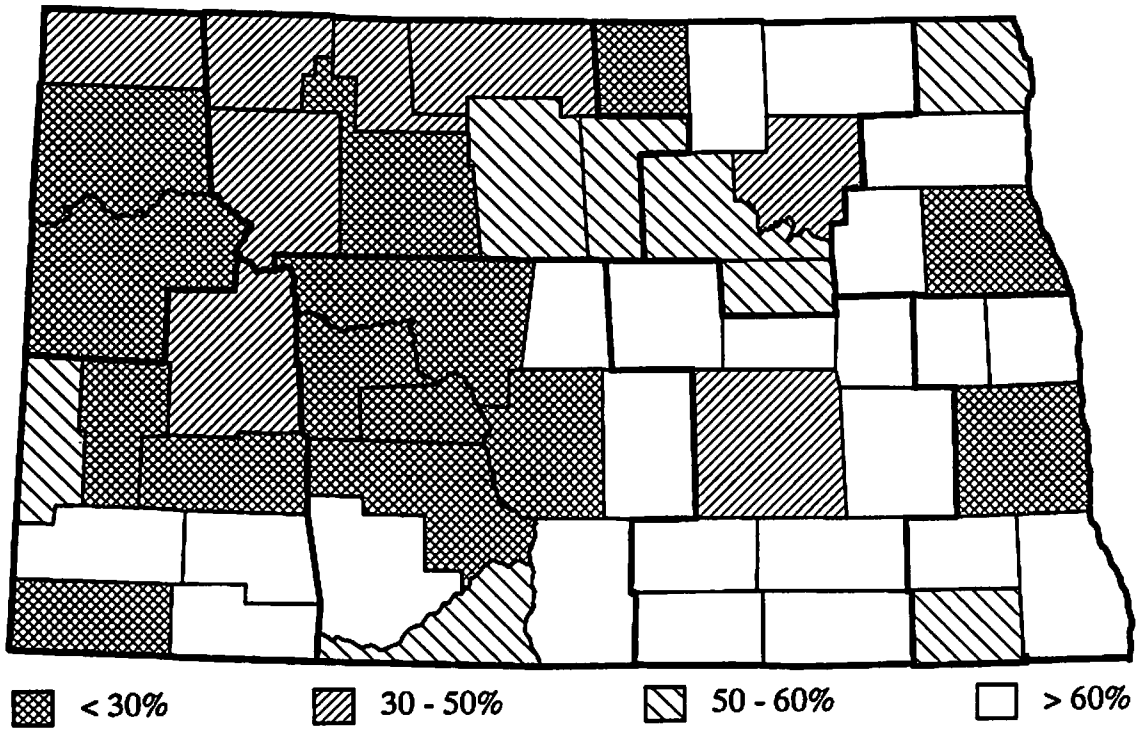


Figure 1. Agriculture as a Percent of Total Sales for Final Demand, North Dakota Counties, 1991

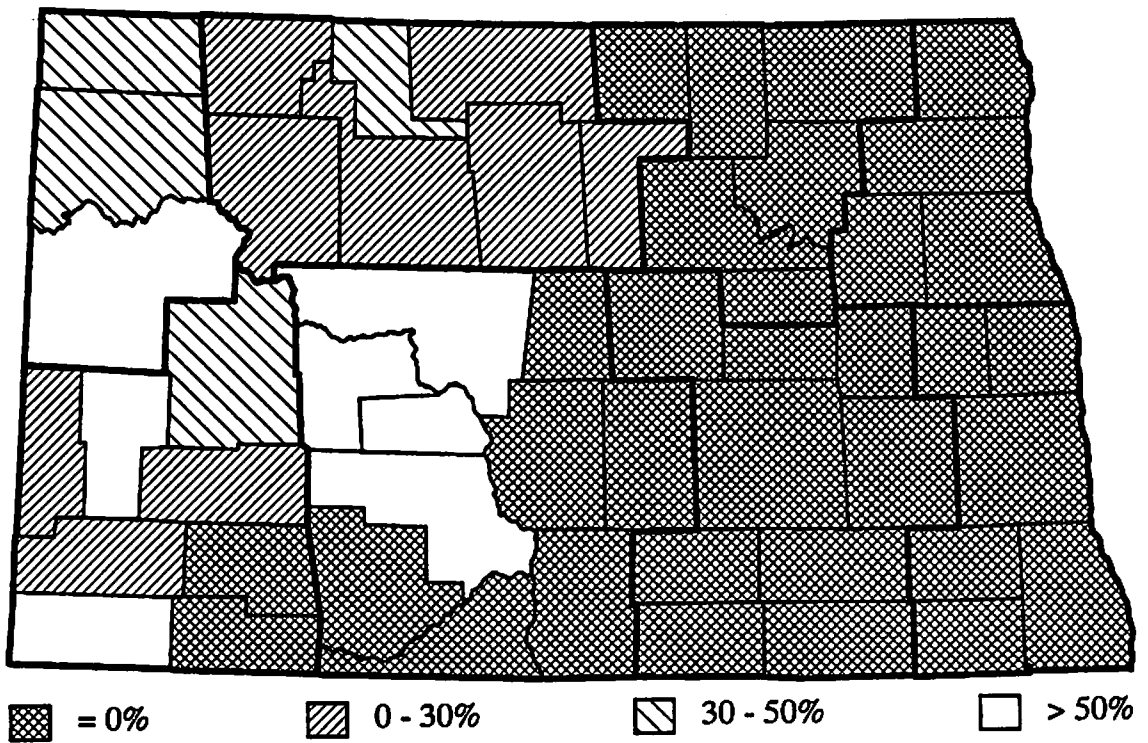


Figure 2. Energy as a Percent of Total Sales for Final Demand, North Dakota Counties, 1991

Manufacturing has been a growing segment of the state's economy in recent years (Leistritz and Wanzek 1992), and it has assumed a substantial role in the economic bases of Regions 4 and 5 in eastern North Dakota (Figure 3). Manufacturing accounts for almost 27 percent of the economic base in Sargent County and about 21 percent in Stark County; however, the leading counties in terms of the *absolute* level of manufacturing activity are Cass, Grand Forks, Ward, Burleigh, Stutsman, and Richland. While manufacturing makes an important contribution in *percentage* terms to the economies of each of these counties, the presence of other important basic sector activities in these counties prevents manufacturing from assuming a dominant role (Table 4).

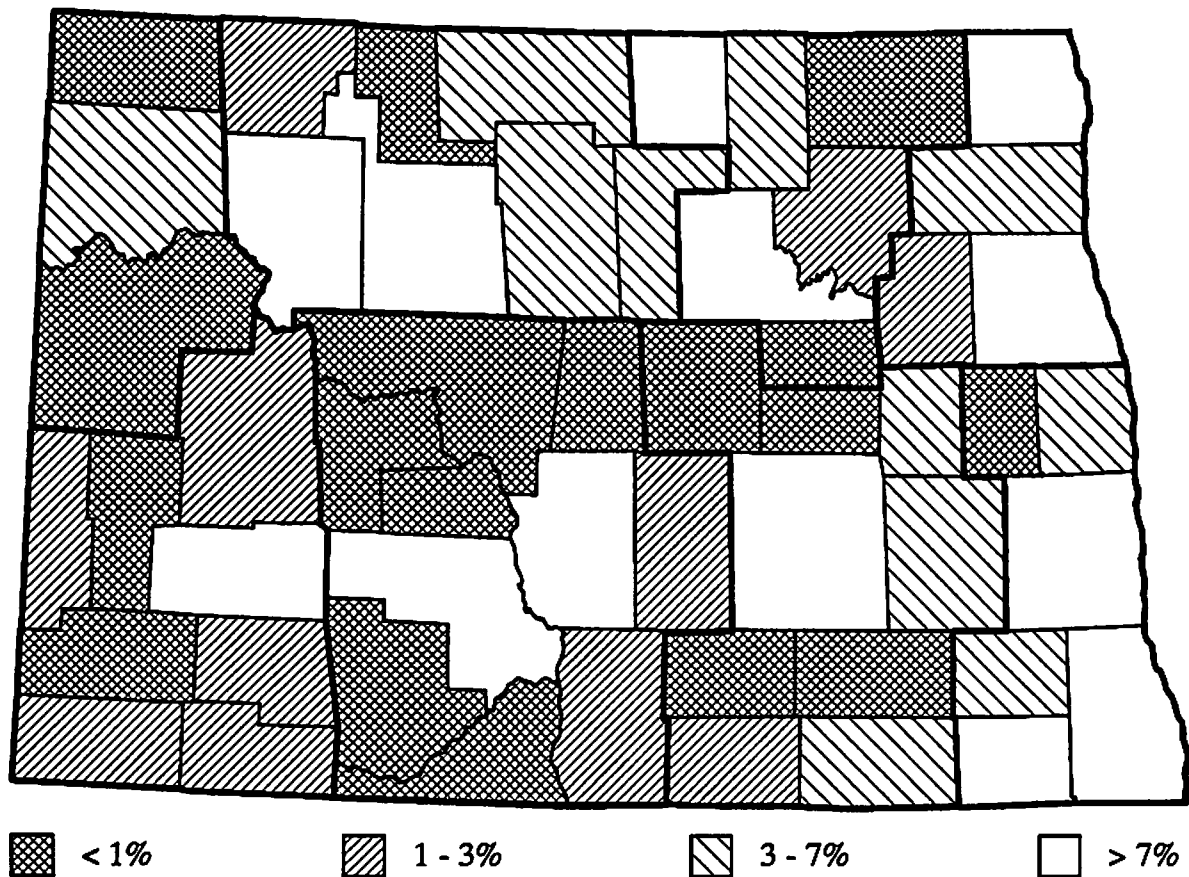


Figure 3. Manufacturing as a Percent of Total Sales for Final Demand, North Dakota Counties, 1991

Tourism also has been a growing segment of the state's economy, in both absolute and relative terms, but it has not yet assumed a dominant role in any county (Table 4 and Figure 4).

Federal activities, which include federal payrolls, transfer payments, and construction expenditures, have been a major source of growth among the state's basic sector activities in recent years. Transfer payments account for most of the growth in this economic base component over the past decade. *(The federal activities category does not include federal farm program payments; these are reported as part of the agriculture--crops sector.)* In 1991, federal activities accounted for 50 percent or more of the economic base of five North Dakota counties (Table 4). These counties include the sites of the state's two major Air Force bases (Ward and Grand Forks Counties) and two of the concentrations of Native American population (Rolette and Ramsey Counties). Burleigh County's high percentage of federal payments probably reflects both the receipt of federal pass-through payments by a number of state agencies and the location in Bismarck of the state headquarters of several federal agencies (Figure 5).

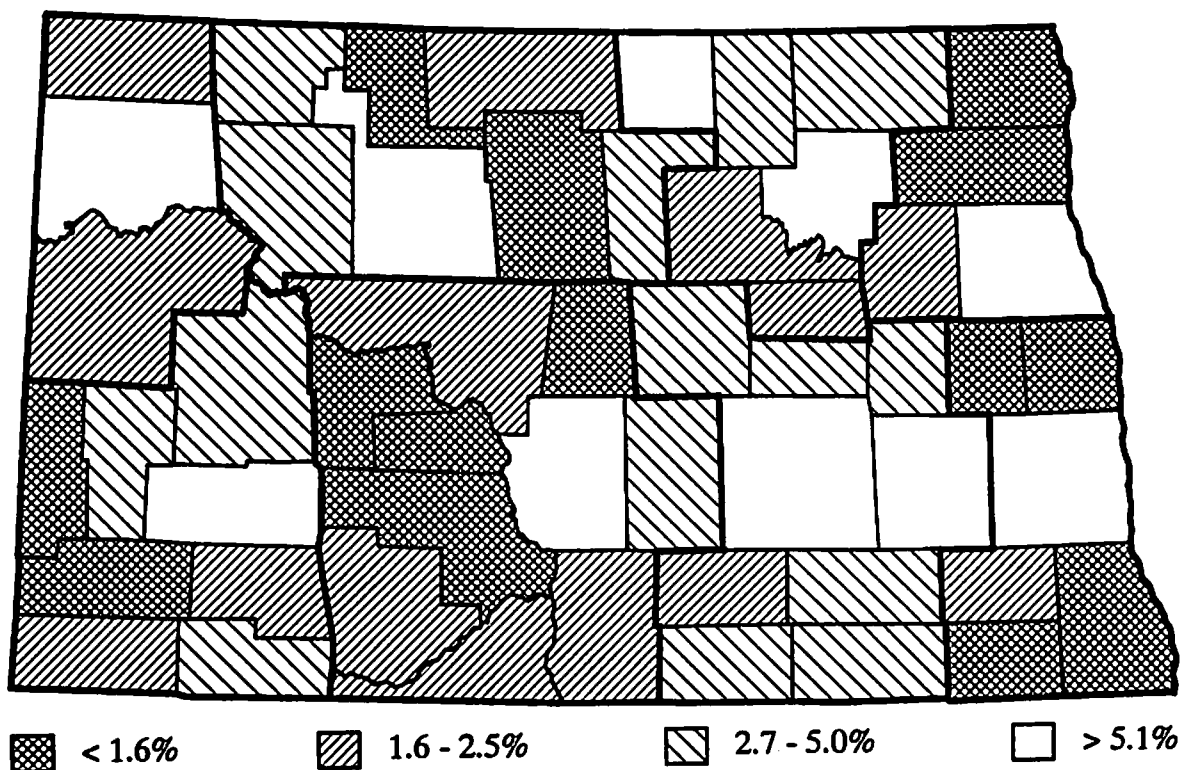


Figure 4. Tourism as a Percent of Total Sales for Final Demand, North Dakota Counties, 1991

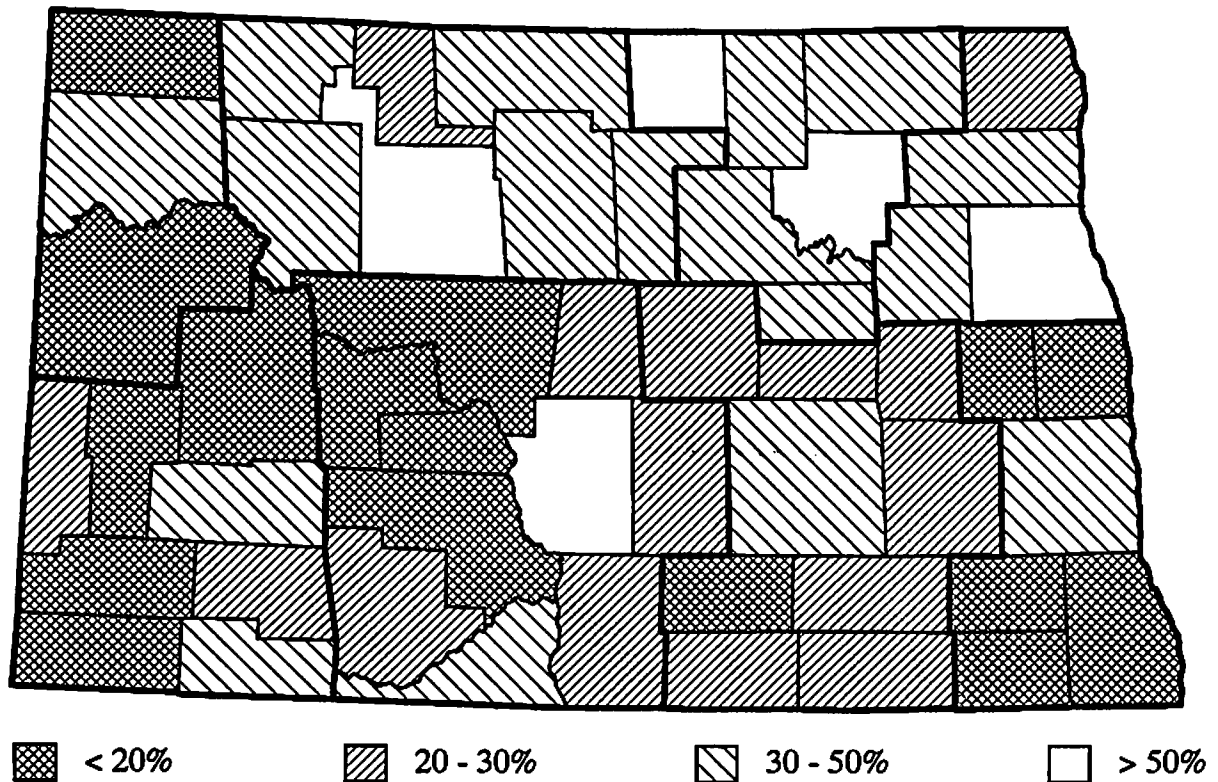


Figure 5. Federal Activities as a Percent of Total Sales for Final Demand, North Dakota Counties, 1991

When changes in the major types of basic sector activity are adjusted for inflation, substantial real growth occurred in all the major basic activities between 1960 and 1991 (Appendix Table 11). Statewide, the real value of sales for final demand more than doubled during this period. Among counties, the greatest growth occurred in Mercer and Billings Counties, which were the sites of massive energy sector growth. Counties registering relatively little growth (less than 25 percent) included Burke, Hettinger, and Sheridan (Figure 6).

Conclusions and Implications

The basic sectors are critical to the growth and vitality of any economic system. As communities plan for the future, it is vital that they have current and accurate information regarding their basic industries. This report provides estimates of the economic base for North Dakota counties for the period 1960-1991, which should be useful to groups engaged in local economic development planning.

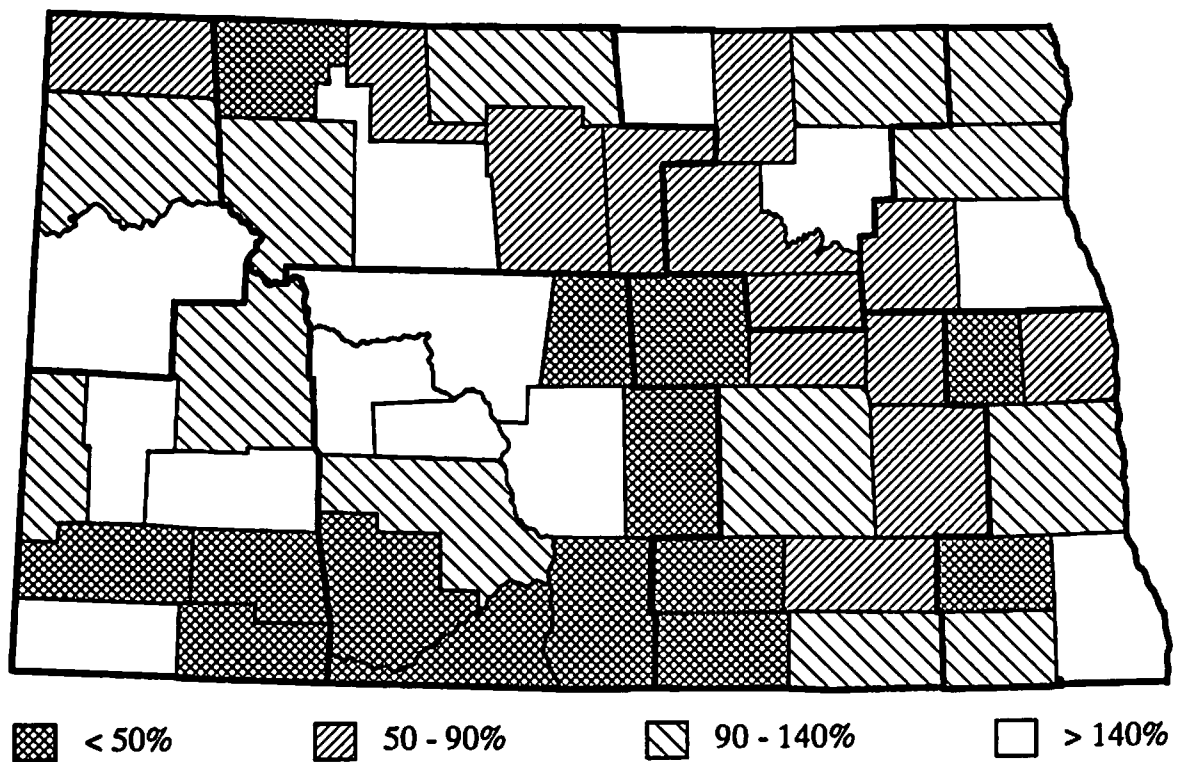


Figure 6. Percent Change in Total Sales for Final Demand, North Dakota Counties, 1960-1991

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APPENDIX

Appendix Table 1. 1960 Sales for Final Demand, by Economic Sector, for North Dakota Counties and Regions, Million Dollars (1960 Dollars)

County/ REGION	(1) Ag Lvstk	(2) Ag Crops	(4) Constr	(7) Ag Proc & Misc Mfg	(8) Retail Trade	(10) Bus & Pers Serv	(12) Households	(14) Coal Mining	(15) Elec Generation	(16) Petr Exp/Ext	(17) Petr Refining	Total
Divide	1.6	6.0	.0	.2	.0	.0	1.2			.5		9.5
McKenzie	4.1	5.2	.5	.3	.2	.1	1.0			13.3		24.7
Williams	2.3	8.0	.9	2.1	.6	.2	5.1	.1		11.7	4.6	35.6
REGION 1	8.0	19.2	1.4	2.6	.8	.3	7.3	.1		25.5	4.6	69.8
Bottineau	2.3	10.4	.3	.5	.2	.1	3.4			4.6		21.8
Burke	1.3	5.3	.1	.2	.1	.0	1.7			5.8		14.5
McHenry	4.8	6.9	.4	.4	.1	.0	2.7			.1		15.4
Mountrail	2.6	7.1	.1	.2	.1	.1	2.7			2.0		14.9
Pierce	2.8	5.7	.1	.3	.1	.0	1.9			.0		10.9
Renville	1.1	5.4	.1	.1	.1	.0	1.6			4.3		12.7
Ward	3.9	12.2	2.8	7.1	1.6	.6	19.0			.0		47.2
REGION 2	18.8	53.0	3.9	8.8	2.3	.8	33.0			16.8		137.4
Benson	3.1	9.7	.2	.2	.1	.0	2.3					15.6
Cavalier	2.5	11.2	.3	.1	.1	.0	2.6					16.8
Eddy	2.2	3.4	.4	.2	.1	.0	1.4					7.7
Ramsey	2.1	5.0	1.9	1.1	.6	.2	4.3					15.2
Rolette	1.9	4.1	.5	1.1	.2	.1	2.6					10.5
Towner	1.3	9.0	.0	.3	.2	.1	2.0					12.9
REGION 3	13.1	42.4	3.3	3.0	1.3	.4	15.2					78.7
Grand Forks	3.1	21.4	3.7	7.1	1.8	.6	24.8					62.5
Nelson	2.5	7.9	.3	.1	.1	.0	2.6					13.5
Pembina	1.6	20.1	.6	1.0	.1	.0	4.8					28.2
Walsh	2.4	22.6	.9	.5	.1	.1	7.9					34.5
REGION 4	9.6	72.0	5.5	8.7	2.1	.7	40.1					138.7
Cass	6.6	20.8	5.3	17.6	2.4	.8	23.0					76.5
Ransom	4.5	8.6	.1	.7	.1	.0	1.7					15.7
Richland	6.7	14.1	.5	.9	.2	.1	4.4					26.9
Sargent	4.1	5.5	.1	.7	.0	.0	1.3					11.7
Steele	1.8	7.7	.1	.1	.0	.0	1.1					10.8
Traill	2.5	12.8	.4	.4	.1	.0	2.5					18.7
REGION 5	26.2	69.5	6.5	20.4	2.8	.9	34.0					160.3

- continued -

Appendix Table 1. Continued

	(1)	(2)	(4)	(7)	(8)	(10)	(12)	(14)	(15)	(16)	(17)	
County/ REGION	Ag Lvstk	Ag Crops	Constr	Ag Proc & Misc Mfg	Retail Trade	Bus & Pers Serv	Households	Coal Mining	Elec Generation	Petr Exp/Ext	Petr Refining	Total
Barnes	4.7	11.7	1.2	1.6	.4	.1	3.8					23.5
Dickey	4.7	5.5	.2	.5	.1	.1	1.6					12.7
Foster	1.9	5.5	.4	.4	.1	.1	1.3					9.7
Griggs	2.1	5.3	.1	.6	.1	.1	1.1					9.4
LaMoure	4.9	7.0	.1	.3	.1	.1	1.9					14.4
Logan	3.9	4.0	.1	.2	.1	.0	.8					9.1
McIntosh	4.1	4.9	.1	.4	.1	.0	1.1					10.7
Stutsman	6.9	13.3	1.7	3.3	1.1	.1	6.0					32.4
Wells	3.6	10.9	.3	.5	.1	.1	2.1					17.6
REGION 6	36.8	68.1	4.2	7.8	2.2	.7	19.7					139.5
Burleigh	5.1	4.0	3.5	6.0	1.6	.5	13.3					34.0
Emmons	6.0	5.0	.1	.2	.1	.0	1.7					13.1
Grant	4.8	3.8	.1	.2	.1	.0	1.3					10.3
Kidder	4.4	2.9	.2	.3	.0	.0	1.2					9.0
McLean	4.5	10.5	.4	.2	.2	.1	3.6	.1				19.6
Mercer	3.5	3.2	.4	.3	.2	.1	1.7	.5				9.9
Morton	6.0	3.8	.8	3.5	.3	.1	5.6				37.1	57.2
Oliver	2.3	2.1	.3	.1	.0	.0	.6					5.4
Sheridan	2.8	4.6	.1	.3	.0	.0	.9					8.7
Sioux	2.2	.8	.1	.5	.0	.0	.8					4.4
REGION 7	41.6	40.7	6.0	11.6	2.5	.8	30.7	.6			37.1	171.6
Adams	2.2	2.9	.1	.2	.0	.0	1.0			.0		6.4
Billings	1.8	.8	.0	.0	.3	.1	.2			.7		3.9
Bowman	2.2	3.3	.1	.1	.1	.0	1.0	.3		.4		7.5
Dunn	4.8	3.7	.1	.1	.1	.1	.7			.0		9.6
Golden Valley	1.5	1.8	.1	.2	.0	.0	.6			.0		4.2
Hettinger	2.6	6.0	.2	.1	.0	.0	1.0			.0		9.9
Slope	1.9	2.9	.0	.0	.0	.0	.3			.0		5.1
Stark	4.3	4.1	1.2	2.5	.6	.2	3.4			.1		16.9
REGION 8	21.3	26.0	1.8	3.2	1.1	.4	8.2	.3		1.2		63.5
STATE TOTAL	175.4	390.9	32.6	66.1	15.1	5.0	188.2	1.0	0.0	43.5	41.7	959.5

Appendix Table 2. 1965 Sales for Final Demand, by Economic Sector, for North Dakota Counties and Regions, Million Dollars (1965 Dollars)

County/ REGION	(1) Ag Lvstk	(2) Ag Crops	(4) Constr	(7) Ag Proc & Misc Mfg	(8) Retail Trade	(10) Bus & Pers Serv	(12) Households	(14) Coal Mining	(15) Elec Generation	(16) Petr Exp/Ext	(17) Petr Refining	Total
Divide	1.8	8.8	.0	.2	.1	.0	1.8			.7		13.4
McKenzie	7.1	7.2	.5	.3	.4	.2	1.6			19.6		36.9
Williams	4.3	10.6	.9	2.1	1.3	.4	7.6			17.3	4.6	49.1
REGION 1	13.2	26.6	1.4	2.6	1.8	.6	11.0			37.6	4.6	99.4
Bottineau	3.2	15.1	.2	.6	.4	.1	7.4			7.0		34.0
Burke	1.8	8.4	.1	.3	.2	.1	3.6			8.8		23.3
McHenry	6.9	10.2	.4	.5	.2	.1	5.8			.1		24.2
Mountrail	4.1	10.6	.1	.2	.3	.1	5.9			2.9		24.2
Pierce	4.1	8.4	.2	.4	.2	.1	4.1			.0		17.5
Renville	1.3	9.1	.1	.2	.1	.0	3.3			6.6		20.7
Ward	5.8	16.4	2.6	9.1	3.7	1.2	40.9			.0		79.7
REGION 2	27.2	78.2	3.7	11.3	5.1	1.7	71.0			25.4		223.6
Benson	4.3	11.6	.1	.2	.3	.1	3.2					19.8
Cavalier	3.0	19.8	.3	.1	.3	.1	3.5					27.1
Eddy	2.8	3.6	.4	.2	.1	.0	1.9					9.0
Ramsey	2.6	14.3	1.8	1.0	1.3	.4	5.9					27.3
Rolette	2.7	5.5	.5	1.0	.5	.2	3.6					14.0
Towner	1.7	11.9	.0	.4	.3	.1	2.6					17.0
REGION 3	17.1	66.7	3.1	2.9	2.8	.9	20.7					114.2
Grand Forks	3.6	33.1	3.5	12.0	3.7	1.3	49.9					107.1
Nelson	2.8	11.1	.3	.2	.2	.0	5.3					19.9
Pembina	2.3	29.4	.6	1.5	.3	.1	9.7					43.9
Walsh	2.7	41.0	.8	.9	.3	.1	15.8					61.6
REGION 4	11.4	114.6	5.2	14.6	4.5	1.5	80.7					232.5
Cass	8.2	29.7	5.1	19.5	5.2	1.8	63.1					132.6
Ransom	6.0	5.3	.1	.7	.1	.0	4.7					16.9
Richland	8.6	21.9	.5	1.0	.3	.1	11.9					44.3
Sargent	5.3	6.2	.1	.8	.1	.0	3.7					16.2
Steele	2.1	9.4	.0	.1	.1	.0	3.1					14.8
Traill	2.4	17.9	.4	.5	.2	.1	7.0					28.5
REGION 5	32.6	90.4	6.2	22.6	6.0	2.0	93.5					253.3

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Appendix Table 2. Continued

County/ REGION	(1) Ag Lvstk	(2) Ag Crops	(4) Constr	(7) Ag Proc & Misc Mfg	(8) Retail Trade	(10) Bus & Pers Serv	(12) Households	(14) Coal Mining	(15) Elec Generation	(16) Petr Exp/Ext	(17) Petr Refining	Total
Barnes	6.4	14.9	1.2	1.4	.9	.3	5.2					30.3
Dickey	7.0	6.8	.2	.4	.3	.1	2.1					16.9
Foster	3.3	5.8	.4	.4	.3	.1	1.7					12.0
Griggs	3.0	7.0	.1	.6	.2	.1	1.5					12.5
LaMoure	6.7	9.6	.1	.2	.3	.1	2.7					19.7
Logan	5.4	5.0	.1	.2	.1	.0	1.1					11.9
McIntosh	5.7	6.6	.0	.4	.1	.0	1.6					14.4
Stutsman	10.0	14.1	1.6	2.9	2.2	.8	8.2					39.8
Wells	5.4	12.1	.3	.4	.3	.1	2.9					21.5
REGION 6	52.9	81.9	4.0	6.9	4.7	1.6	27.0					179.0
Burleigh	8.3	6.1	3.3	6.6	3.5	1.1	20.1					49.0
Emmons	8.0	8.7	.1	.2	.1	.1	2.6					19.8
Grant	6.9	5.0	.1	.2	.2	.1	1.9					14.4
Kidder	7.3	3.5	.2	.3	.1	.0	1.8					13.2
McLean	6.7	17.2	.4	.2	.4	.1	5.5	.1				30.6
Mercer	5.5	4.4	.4	.4	.3	.1	2.6	1.2				14.9
Morton	9.3	6.0	.8	3.8	.8	.3	8.4				40.0	69.4
Oliver	3.6	2.5	.2	.1	.0	.0	.9					7.3
Sheridan	3.9	5.7	.1	.3	.0	.0	1.4					11.4
Sioux	2.7	1.6	.1	.5	.1	.0	1.2					6.2
REGION 7	62.2	60.7	5.7	12.6	5.5	1.8	46.4	1.3			40.0	236.2
Adams	3.1	4.6	.1	.4	.1	.0	1.3			.0		9.6
Billings	2.4	1.4	.0	.0	.5	.2	.2			3.2		7.9
Bowman	3.2	3.7	.1	.2	.2	.1	1.3	.2		1.8		10.8
Dunn	7.6	4.8	.1	.1	.2	.1	1.0			.1		14.0
Golden Valley	2.4	3.3	.1	.2	.0	.0	.8			.0		6.8
Hettinger	3.3	8.1	.2	.1	.1	.0	1.5			.0		13.3
Slope	2.6	3.4	.0	.0	.0	.0	.4			.0		6.4
Stark	6.3	6.1	1.1	3.9	1.3	.4	4.7			.3		24.1
REGION 8	30.9	35.4	1.7	4.9	2.4	.8	11.2	.2		5.4		92.9
STATE TOTAL	247.5	554.5	31.0	78.4	32.8	10.9	361.5	1.5	0.0	68.4	44.6	1,431.1

Appendix Table 3. 1970 Sales for Final Demand, by Economic Sector, for North Dakota Counties and Regions, Million Dollars (1970 Dollars)

County/ REGION	(1) Ag Lvstk	(2) Ag Crops	(4) Constr	(7) Ag Proc & Misc Mfg	(8) Retail Trade	(10) Bus & Pers Serv	(12) Households	(14) Coal Mining	(15) Elec Generation	(16) Petr Exp/Ext	(17) Petr Refining	Total
Divide	2.2	12.4	.1	.1	.2	.1	2.7			.8		18.6
McKenzie	9.1	10.0	.1	.1	1.2	.4	3.0			11.7		35.6
Williams	4.2	15.9	.5	4.7	3.3	1.1	13.2			16.4	5.1	64.4
REGION 1	15.5	38.3	.7	4.9	4.7	1.6	18.9			28.9	5.1	118.6
Bottineau	3.1	19.3	.1	.7	1.1	.4	10.1			8.2		43.0
Burke	1.9	9.8	.1	.2	.5	.2	5.0			5.4		23.1
McHenry	8.0	11.0	.2	.8	.4	.1	9.2			.1		29.8
Mountrail	12.9	13.6	.2	.2	.9	.3	8.7			1.9		38.7
Pierce	3.9	9.1	.1	.8	.5	.2	6.9			.0		21.5
Renville	1.3	10.9	.1	.1	.3	.1	4.0			4.9		21.7
Ward	6.4	20.5	2.1	18.5	9.5	3.1	85.6			1.0		146.7
REGION 2	37.5	94.2	2.9	21.3	13.2	4.4	129.5			21.5		324.5
Benson	4.7	15.9	.0	.5	.8	.3	6.1					28.3
Cavalier	2.4	18.7	.7	.3	.7	.2	11.5					34.5
Eddy	2.8	5.8	.0	.3	.3	.1	3.8					13.1
Ramsey	2.2	16.9	.1	1.8	3.5	1.2	12.9					38.6
Rolette	3.0	6.6	.1	2.0	1.3	.4	8.5					21.9
Towner	1.5	14.9	.0	.6	.8	.3	4.2					22.3
REGION 3	16.6	78.8	.9	5.5	7.4	2.5	47.0					158.7
Grand Forks	3.5	39.7	113.8	19.1	9.8	3.4	72.0					261.3
Nelson	.8	14.5	7.6	.4	.5	.2	6.1					30.1
Pembina	2.0	31.5	12.2	6.0	.7	.2	12.2					64.8
Walsh	2.7	47.6	17.2	2.0	.7	.2	17.3					87.7
REGION 4	9.0	133.3	150.8	27.5	11.7	4.0	107.6					443.9
Cass	7.9	35.6	9.5	29.7	13.7	4.5	71.9					172.8
Ransom	6.0	7.4	.2	2.6	.3	.1	4.7					21.3
Richland	10.8	30.5	.9	3.8	.8	.3	11.8					58.9
Sargent	6.2	7.4	.2	5.8	.3	.1	3.7					23.7
Steele	1.3	11.3	.1	.2	.1	.0	2.2					15.2
Traill	2.0	20.5	.6	.7	.5	.2	6.3					30.8
REGION 5	34.2	112.7	11.5	42.8	15.7	5.2	100.6					322.7

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Appendix Table 3. Continued

County/ REGION	(1) Ag Lvstk	(2) Ag Crops	(4) Constr	(7) Ag Proc & Misc Mfg	(8) Retail Trade	(10) Bus & Pers Serv	(12) Households	(14) Coal Mining	(15) Elec Generation	(16) Petr Exp/Ext	(17) Petr Refining	Total
Barnes	6.4	20.1	2.5	1.7	2.4	.8	9.3					43.2
Dickey	7.9	8.4	.3	1.1	.7	.2	4.5					23.1
Foster	2.8	8.9	.7	.5	.7	.3	3.2					17.1
Griggs	2.7	9.8	.2	.6	.4	.2	2.7					16.6
LaMoure	8.2	11.8	.5	.5	.8	.3	4.6					26.7
Logan	7.1	4.7	.3	.1	.3	.1	2.1					14.7
McIntosh	7.4	6.0	.1	.5	.4	.1	3.0					17.5
Stutsman	10.8	19.8	3.5	7.6	5.8	1.9	17.0					66.4
Wells	4.8	18.4	.6	.6	.7	.2	4.8					30.1
REGION 6	58.1	107.9	8.7	13.2	12.2	4.1	51.2					255.4
Burleigh	1.0	6.2	2.8	10.7	9.1	3.0	38.8					71.6
Emmons	10.1	6.7	.1	.3	.4	.1	4.1					21.8
Grant	9.7	5.1	.1	.1	.5	.2	3.3					19.0
Kidder	8.3	3.2	.1	.2	.2	.1	3.2					15.3
McLean	7.9	19.7	.6	.3	1.0	.3	8.1	.1				38.0
Mercer	6.8	4.5	.2	.3	.9	.3	4.3	2.8	9.4			29.5
Morton	4.4	5.8	.7	11.1	2.1	.7	15.7				45.7	86.2
Oliver	4.5	2.4	.1	.0	.1	.0	2.1		4.4			13.6
Sheridan	4.5	8.7	.0	.3	.1	.0	2.0					15.6
Sioux	4.2	1.1	.0	.4	.1	.1	2.2					8.1
REGION 7	61.4	63.4	4.7	23.7	14.5	4.8	83.8	2.9	13.8		45.7	318.7
Adams	3.6	5.0	.2	1.1	.2	.1	3.3			.0		13.5
Billings	3.4	1.5	.0	.1	1.4	.5	.3			8.7		15.9
Bowman	4.1	4.7	.1	.2	.3	.1	3.2	.3		2.2		15.2
Dunn	10.1	5.5	.1	.2	.6	.2	2.7			.0		19.4
Golden Valley	2.9	3.8	.2	.6	.1	.0	2.1			.2		9.9
Hettinger	4.7	10.1	.2	.1	.2	.1	3.4			.0		18.8
Slope	3.1	4.1	.0	.0	.0	.0	.9			.1		8.2
Stark	8.3	7.7	1.2	7.0	3.4	1.1	13.4			5.7		47.8
REGION 8	40.2	42.4	2.0	9.3	6.2	2.1	29.3	.3		16.9		148.7
STATE	272.5	671.0	182.2	148.2	85.7	28.7	567.9	3.2	13.8	67.3	50.8	2,091.3

Appendix Table 4. 1975 Sales for Final Demand, by Economic Sector, for North Dakota Counties and Regions, Million Dollars (1975 Dollars)

County/ REGION	(1) Ag Lvstk	(2) Ag Crops	(4) Constr	(7) Ag Proc & Misc Mfg	(8) Retail Trade	(10) Bus & Pers Serv	(12) Households	(14) Coal Mining	(15) Elec Generation	(16) Petr Exp/Ext	(17) Petr Refining	Total
Divide	2.9	26.2	.0	.6	.3	.1	4.5			1.9		36.5
McKenzie	14.1	20.2	.2	.3	1.5	.5	6.3			34.1		77.2
Williams	7.0	38.6	.7	9.3	4.4	1.5	20.2			36.1	9.1	126.9
REGION 1	24.0	85.0	.9	10.2	6.2	2.1	31.0			72.1	9.1	240.6
Bottineau	4.6	41.4	.2	1.2	1.4	.5	29.4			19.9		98.6
Burke	3.3	18.8	.1	.2	.6	.2	12.0			8.2		43.4
McHenry	13.3	24.3	.4	1.2	.5	.2	26.8			.2		66.9
Mountrail	6.8	29.2	.1	1.4	1.2	.4	20.7			2.4		62.2
Pierce	7.8	22.0	.2	2.0	.8	.2	19.1			.0		52.1
Renville	2.1	23.6	.1	.2	.4	.1	12.1			14.4		53.0
Ward	9.0	47.3	4.3	37.9	12.4	4.2	177.2			1.4		293.7
REGION 2	46.9	206.6	5.4	44.1	17.3	5.8	297.3			46.5		669.9
Benson	7.4	43.0	.5	2.8	1.0	.3	15.8					70.8
Cavalier	3.2	54.3	1.7	4.9	.9	.3	22.0					87.3
Eddy	4.9	12.8	.6	.1	.4	.1	6.0					24.9
Ramsey	3.0	47.1	1.0	1.3	4.6	1.5	26.8					85.3
Rolette	4.2	18.1	1.1	2.0	1.7	.6	15.0					42.7
Towner	2.1	41.4	.2	.2	1.1	.4	11.7					57.1
REGION 3	24.8	216.7	5.1	11.3	9.7	3.2	97.3					368.1
Grand Forks	4.6	83.8	16.3	36.6	12.9	4.4	120.5					279.1
Nelson	3.7	34.5	1.6	1.4	.7	.2	14.2					56.3
Pembina	2.8	71.6	3.3	14.5	.9	.3	26.3					119.7
Walsh	4.1	85.5	3.4	4.4	.9	.3	35.4					134.0
REGION 4	15.2	275.4	24.6	56.9	15.4	5.2	196.4					589.1
Cass	12.1	67.3	23.1	58.6	18.0	6.0	92.7					277.8
Ransom	9.4	17.7	.4	5.1	.4	.1	7.2					40.3
Richland	15.2	49.7	3.3	10.5	1.1	.4	18.0					98.2
Sargent	12.6	22.8	.3	9.7	.4	.1	6.3					52.2
Steele	2.5	33.1	.2	.3	.1	.1	5.1					41.4
Traill	3.2	50.7	.7	4.4	.6	.2	12.8					72.6
REGION 5	55.0	241.3	28.0	88.6	20.6	6.9	142.1					582.5

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Appendix Table 4. Continued

County/ REGION	(1) Ag Lvstk	(2) Ag Crops	(4) Constr	(7) Ag Proc & Misc Mfg	(8) Retail Trade	(10) Bus & Pers Serv	(12) Households	(14) Coal Mining	(15) Elec Generation	(16) Petr Exp/Ext	(17) Petr Refining	Total
Barnes	12.1	54.3	.8	2.1	3.1	1.0	14.5					87.9
Dickey	12.7	24.0	.2	2.7	.9	.3	7.0					47.8
Foster	5.8	20.2	.3	.9	1.0	.3	4.7					33.2
Griggs	4.7	21.9	.1	3.1	.6	.2	4.2					34.8
LaMoure	11.6	30.9	.1	1.0	1.1	.3	6.8					51.8
Logan	9.9	13.3	.1	.1	.3	.1	3.0					26.8
McIntosh	11.2	17.4	.1	.9	.5	.2	4.7					35.0
Stutsman	16.6	55.6	1.7	16.0	7.7	2.6	24.4					124.6
Wells	7.3	40.3	.3	.4	.9	.3	8.4					57.9
REGION 6	91.9	277.9	3.7	27.2	16.1	5.3	77.7					499.8
Burleigh	14.9	19.1	5.8	26.8	12.0	4.0	76.6					159.2
Emmons	13.4	21.5	.2	.9	.5	.2	8.7					45.4
Grant	15.2	10.7	.1	.2	.6	.2	4.8					31.8
Kidder	12.9	13.1	.1	.4	.3	.1	7.0					33.9
McLean	10.4	48.5	1.3	.7	1.3	.4	20.1					82.7
Mercer	11.3	9.0	2.8	.8	1.2	.4	10.2	3.6	16.5			55.8
Morton	21.5	13.5	1.9	18.3	2.7	.9	29.4				74.2	162.4
Oliver	7.3	5.3	1.2	.0	.1	.0	3.1	1.5	4.1			22.6
Sheridan	7.3	17.1	.3	.3	.1	.0	5.4					30.5
Sioux	7.5	3.5	.0	.6	.2	.1	3.9					15.8
REGION 7	121.7	161.3	13.7	49.0	19.0	6.3	169.2	5.1	20.6		74.2	640.1
Adams	9.4	10.5	.2	1.1	.2	.1	3.3			.0		24.8
Billings	5.7	2.5	.0	.0	1.8	.6	.9			16.9		28.4
Bowman	7.5	10.5	.2	.3	.5	.1	3.7	2.0		11.5		36.3
Dunn	16.1	9.7	.1	.1	.8	.3	3.2			.4		30.7
Golden Valley	5.9	10.4	.1	.3	.1	.0	2.5			.4		19.7
Hettinger	7.2	20.5	.1	.7	.3	.1	3.5			.0		32.4
Slope	6.6	11.2	.1	.0	.0	.0	1.3			.6		19.8
Stark	14.9	16.3	1.0	16.8	4.5	1.5	17.3			15.3		87.6
REGION 8	73.3	91.6	1.8	19.3	8.2	2.7	35.7	2.0		45.1		279.7
STATE TOTAL	452.8	1,555.8	83.2	306.6	112.5	37.5	1,046.7	7.1	20.6	163.7	83.3	3,869.8

Appendix Table 5. 1980 Sales for Final Demand, by Economic Sector, for North Dakota Counties and Regions, Million Dollars (1980 Dollars)

County/ REGION	(1) Ag Lvstk	(2) Ag Crops	(4) Constr	(7) Ag Proc & Misc Mfg	(8) Retail Trade	(10) Bus & Pers Serv	(12) Households	(14) Coal Mining	(15) Elec Generation	(16) Petr Exp/Ext	(17) Petr Refining	Total
Divide	5.7	35.6	.1	.3	.4	.1	3.3			4.9		50.4
McKenzie	26.5	13.6	1.4	.5	2.0	.7	8.2			161.8		214.7
Williams	12.8	32.0	3.8	17.8	5.5	1.8	31.4	.1		84.4	22.5	212.1
REGION 1	45.0	81.2	5.3	18.6	7.9	2.6	42.9	.1		251.1	22.5	477.2
Bottineau	8.1	48.2	.5	7.5	1.8	.6	24.2			47.9		138.8
Burke	5.6	23.9	.1	.7	.8	.3	9.9			12.9		54.2
McHenry	24.0	24.8	.6	3.1	.7	.2	18.3			.3		72.0
Mountrail	12.8	33.5	.5	4.4	1.5	.5	17.7			10.9		81.8
Pierce	11.1	19.1	.3	1.9	1.0	.3	14.0					47.7
Renville	3.5	23.9	.9	2.7	.5	.2	9.6			25.1		66.4
Ward	15.3	48.0	9.5	60.5	16.0	5.4	166.4			3.0		324.1
REGION 2	80.4	221.4	12.4	80.8	22.3	7.5	260.1			100.1		785.0
Benson	11.3	42.1	3.0	8.6	1.3	.4	20.3					87.0
Cavalier	4.6	71.2	1.7	1.3	1.1	.4	20.9					101.2
Eddy	8.3	20.7	1.5	.3	.5	.1	10.3					41.7
Ramsey	3.6	46.4	7.2	4.0	5.9	2.0	44.7					113.8
Rolette	8.3	20.0	3.9	6.0	2.2	.7	26.7					67.8
Towner	2.5	41.6	1.7	.6	1.4	.5	12.1					60.4
REGION 3	38.6	242.0	19.0	20.8	12.4	4.1	135.0					471.9
Grand Forks	17.7	84.1	9.6	65.2	16.6	5.6	182.6					381.4
Nelson	6.8	30.6	.5	2.9	.8	.3	14.3					56.2
Pembina	4.8	103.8	.6	30.7	1.2	.4	30.8					172.3
Walsh	8.2	125.8	1.4	5.6	1.2	.4	41.8					184.4
REGION 4	37.5	344.3	12.1	104.4	19.8	6.7	269.5					794.3
Cass	14.3	135.2	14.3	99.4	23.0	7.8	163.1					457.1
Ransom	15.3	29.8	.4	.7	.5	.1	9.1					55.9
Richland	18.8	110.3	1.1	31.6	1.4	.5	25.9					189.6
Sargent	18.3	37.6	.2	22.7	.5	.1	7.9					87.3
Steele	2.7	30.9	.1	.5	.2	.1	5.1					39.6
Traill	4.4	75.4	.3	7.5	.8	.3	15.8					104.5
REGION 5	73.8	419.2	16.4	162.4	26.4	8.9	226.9					934.0

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Appendix Table 5. Continued

County/ REGION	(1) Ag Lvstk	(2) Ag Crops	(4) Constr	(7) Ag Proc & Misc Mfg	(8) Retail Trade	(10) Bus & Pers Serv	(12) Households	(14) Coal Mining	(15) Elec Generation	(16) Petr Exp/Ext	(17) Petr Refining	Total
Barnes	14.7	54.6	1.8	3.2	4.0	1.3	25.2					104.8
Dickey	26.4	31.6	.5	3.3	1.2	.4	11.0					74.4
Foster	10.5	20.6	.6	.9	1.2	.4	8.6					42.8
Griggs	8.1	20.8	.2	2.6	.7	.3	5.9					38.6
LaMoure	19.1	38.8	.2	.4	1.4	.5	9.1					69.5
Logan	21.2	7.7	.2	.3	.4	.1	5.2					35.1
McIntosh	19.5	7.4	.1	2.1	.7	.2	7.5					37.5
Stutsman	7.1	54.5	2.8	36.4	9.9	3.2	45.5					159.4
Wells	11.4	42.8	.4	.7	1.2	.4	12.7					69.6
REGION 6	138.0	278.8	6.8	49.9	20.7	6.8	130.7					631.7
Burleigh	24.2	6.9	11.6	49.8	15.3	5.1	125.8					238.7
Emmons	25.9	4.9	.7	1.4	.6	.2	9.4					43.1
Grant	26.0	6.7	.1	.6	.8	.3	6.4					40.9
Kidder	26.8	6.0	.2	.4	.3	.1	6.4					40.2
McLean	17.4	39.0	2.4	1.4	1.7	.5	22.5	6.2	30.4			121.5
Mercer	46.0	5.8	13.5	1.2	1.6	.5	19.9	10.8	52.5			151.8
Morton	41.2	5.8	3.6	33.6	3.5	1.1	46.5				228.8	364.1
Oliver	13.3	3.2	1.1	.1	.2	.1	4.5	13.5	37.2			73.2
Sheridan	11.5	13.1	.2	.5	.2	.1	4.3					29.9
Sioux	11.6	1.7	.2	.9	.2	.1	5.1					19.8
REGION 7	243.9	93.1	33.6	89.9	24.4	8.1	250.8	30.5	120.1		228.8	1,123.2
Adams	12.1	4.6	.2	4.0	.3	.1	4.9					26.2
Billings	10.4	1.0	.1	.1	2.3	.8	1.6			260.3		276.6
Bowman	12.7	5.4	.1	.7	.6	.2	5.6	17.6		27.6		70.5
Dunn	32.3	3.8	.2	.2	1.0	.3	6.9			49.6		94.3
Golden Valley	10.1	3.1	.1	1.5	.2	.1	3.9			8.1		27.1
Hettinger	11.7	11.2	.1	1.4	.3	.1	5.4			.7		30.9
Slope	10.8	3.7		.1	.1		1.8			.7		17.2
Stark	24.1	8.8	1.7	27.4	5.8	1.9	32.5			28.3		130.5
REGION 8	124.2	41.6	2.5	35.4	10.6	3.5	62.6	17.6		375.3		673.3
STATE TOTAL	781.4	1,721.6	108.1	562.2	144.5	48.2	1,378.5	48.3	120.1	726.5	251.3	5,890.7

Appendix Table 6. 1985 Sales for Final Demand, by Economic Sector, for North Dakota Counties and Regions, Million Dollars (1985 Dollars)

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County/ REGION	(1) Ag Lvstk	(2) Ag Crops	(4) Constr	(7) Ag Proc & Misc Mfg	(8) Retail Trade	(10) Bus & Pers Serv	(12) Households	(14) Coal Mining	(15) Elec Generation	(16) Petr Exp/Ext	(17) Petr Refining	Total
Divide	4.2	10.3	.3	.2	.5	.2	9.4			30.2		55.3
McKenzie	21.4	19.1	1.0	.9	2.6	.8	20.9			444.9		511.6
Williams	8.6	22.2	3.4	18.2	7.4	2.5	81.9	.3		163.2	30.4	338.1
REGION 1	34.2	51.6	4.7	19.3	10.5	3.5	112.2	.3		638.3	30.4	905.0
Bottineau	5.7	71.4	1.3	3.9	2.4	.8	45.7			61.4		192.6
Burke	4.2	20.9	.5	.7	1.0	.3	15.6			37.6		80.8
McHenry	24.0	49.7	1.0	4.4	.9	.3	30.7			1.3		112.3
Mountrail	10.8	36.3	.8	8.2	2.0	.7	30.8			13.0		102.6
Pierce	9.9	33.5	.6	3.7	1.3	.4	25.0			.0		74.4
Renville	3.2	42.0	.5	.2	.6	.2	18.3			41.4		106.4
Ward	13.4	85.3	12.3	62.9	21.1	7.0	265.2			1.8		469.0
REGION 2	71.2	339.1	17.0	84.0	29.3	9.7	431.3			156.5		1,138.1
Benson	10.7	54.1	.9	9.2	1.7	.6	30.1					107.3
Cavalier	3.3	104.4	1.4	.3	1.5	.5	39.0					150.4
Eddy	6.6	21.3	.2	.1	.6	.2	15.0					44.0
Ramsey	3.3	68.2	3.7	2.4	7.8	2.6	67.2					155.2
Rolette	6.9	25.8	1.7	7.5	2.8	.9	41.3					86.9
Towner	2.9	59.1	.7	2.1	1.9	.6	22.2					89.5
REGION 3	33.7	332.9	8.6	21.6	16.3	5.4	214.8					633.3
Grand Forks	6.5	121.1	10.5	67.0	21.8	7.3	273.8					508.0
Nelson	5.9	54.9	.4	1.7	1.1	.4	24.4					88.8
Pembina	4.4	126.0	2.0	34.4	1.6	.5	46.6					215.5
Walsh	6.8	148.8	1.6	5.4	1.5	.5	70.1					234.7
REGION 4	23.6	450.8	14.5	108.5	26.0	8.7	414.9					1,047.0
Cass	12.5	173.6	11.1	97.7	30.4	10.1	236.2					571.6
Ransom	12.3	47.9	.3	2.5	.7	.2	13.3					77.2
Richland	17.7	166.5	1.0	38.5	1.9	.6	40.4					266.6
Sargent	13.8	52.5	.2	21.7	.6	.2	12.9					101.9
Steele	2.3	48.3	.1	.5	.2	.1	7.0					58.5
Traill	2.8	92.4	.5	7.9	1.0	.4	21.7					126.7
REGION 5	61.4	581.2	13.2	168.8	34.8	11.6	331.5					1,202.5

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Appendix Table 6. Continued

	(1)	(2)	(4)	(7)	(8)	(10)	(12)	(14)	(15)	(16)	(17)	
County/ REGION	Ag Lvstk	Ag Crops	Constr	Ag Proc & Misc Mfg	Retail Trade	Bus & Pers Serv	Households	Coal Mining	Elec Generation	Petr Exp/Ext	Petr Refining	Total
Barnes	12.1	83.8	2.1	2.8	5.2	1.8	33.8					141.6
Dickey	22.0	45.9	1.3	2.7	1.6	.5	17.9					91.9
Foster	6.4	35.6	.4	.6	1.6	.6	11.8					57.0
Griggs	7.7	37.0	.4	.8	1.0	.3	9.8					57.0
LaMoure	17.4	53.3	.4	.5	1.8	.6	13.4					87.4
Logan	22.2	18.5	.3	.2	.6	.2	6.4					48.4
McIntosh	22.0	18.4	.3	1.1	.9	.3	10.2					53.2
Stutsman	26.9	86.8	3.2	42.6	13.0	4.3	62.2					239.0
Wells	10.0	62.7	1.3	.6	1.5	.5	20.1					96.7
REGION 6	146.7	442.0	9.7	51.9	27.2	9.1	185.6					872.2
Burleigh	22.6	26.9	12.0	48.4	20.2	6.7	209.3					346.1
Emmons	31.4	25.5	.7	1.3	.8	.3	13.6					73.6
Grant	27.8	21.9	.2	.1	1.1	.3	10.0					61.4
Kidder	23.0	15.2	.2	.4	.5	.1	7.5					46.9
McLean	16.1	77.9	1.6	2.0	2.2	.8	40.7	32.2	81.1			254.6
Mercer	14.9	17.3	9.3	.7	2.1	.7	43.6	44.6	133.4			266.6
Morton	39.8	24.1	3.7	39.5	4.5	1.5	70.9				313.9	497.9
Oliver	14.8	11.5	1.5	.1	.2	.1	7.4	36.1	47.0			118.7
Sheridan	10.0	31.5	.2	.1	.2	.1	9.5					51.6
Sioux	11.8	5.4	.1	.8	.3	.1	6.3					24.8
REGION 7	212.2	257.2	29.5	93.4	32.1	10.7	418.8	112.9	261.5		313.9	1,742.2
Adams	11.3	17.5	.3	1.1	.4	.1	7.6			.0		38.3
Billings	8.8	1.7	.0	.0	3.1	1.0	2.6			349.6		366.8
Bowman	11.1	9.9	.5	1.2	.8	.3	9.2	23.7		43.3		100.0
Dunn	27.6	16.0	.5	.3	1.3	.4	7.6			92.8		146.5
Golden Valley	9.9	5.6	.3	4.5	.2	.1	5.4			24.4		50.4
Hettinger	12.7	44.6	.3	.5	.4	.2	9.0			.5		68.2
Slope	9.9	12.3	.0	.0	.1	.0	2.0			5.5		29.8
Stark	24.0	23.8	3.4	29.2	7.6	2.5	52.8			39.2		182.5
REGION 8	115.3	131.4	5.3	36.8	13.9	4.6	96.2	23.7		555.3		982.5
STATE TOTAL	698.3	2,586.2	102.5	584.3	190.1	63.3	2,205.3	136.9	261.5	1,350.1	344.3	8,522.8

Appendix Table 7. 1988 Sales for Final Demand, by Economic Sector, for North Dakota Counties and Regions, Million Dollars (1988 Dollars)

County/ REGION	(1) Ag Lvstk	(2) Ag Crops	(4) Constr	(7) Ag Proc & Misc Mfg	(8) Retail Trade	(10) Bus & Pers Serv	(12) Households	(14) Coal Mining	(15) Elec Generation	(16) Petr Exp/Ext	(17) Petr Refining	Total
Divide	5.8	26.4	.3	.3	.6	.2	10.3			10.1		54.0
McKenzie	26.7	29.4	1.0	1.1	3.0	1.0	20.4			179.0		261.6
Williams	10.8	33.7	3.1	20.2	8.5	2.8	79.3	.2		82.1	26.8	267.5
REGION 1	43.3	89.5	4.4	21.6	12.1	4.0	110.0	.2		271.2	26.8	583.1
Bottineau	7.3	66.2	1.1	5.9	2.8	.9	42.3			35.7		162.2
Burke	4.6	30.9	.5	.9	1.2	.4	16.3			13.7		68.5
McHenry	28.7	26.5	.7	4.7	1.1	.4	28.1			.6		90.8
Mountrail	13.7	31.0	.5	11.1	2.3	.8	34.1			13.5		107.0
Pierce	12.1	18.1	.5	4.4	1.4	.5	24.2					61.2
Renville	3.3	42.2	.5	.2	.7	.2	15.6			22.2		84.9
Ward	17.0	61.5	11.9	66.8	24.3	8.1	309.4			5.3		504.3
REGION 2	86.7	276.4	15.7	94.0	33.8	11.3	470.0			91.0		1,078.9
Benson	13.0	31.6	.4	10.6	2.0	.7	29.5					87.8
Cavalier	3.5	92.5	1.9	.3	1.7	.6	36.5					137.0
Eddy	8.2	21.0	.2	.1	.7	.2	16.6					47.0
Ramsey	3.8	74.6	2.8	1.9	9.1	3.0	77.8					173.0
Rolette	9.6	25.0	2.2	8.1	3.3	1.1	52.1					101.4
Towner	3.0	61.9	.5	3.2	2.1	.7	22.2					93.6
REGION 3	41.1	306.6	8.0	24.2	18.9	6.3	234.7					639.8
Grand Forks	6.9	204.2	10.2	77.6	25.2	8.4	309.8					642.3
Nelson	6.5	67.9	.3	.9	1.3	.4	20.3					97.6
Pembina	5.8	176.5	1.6	35.3	1.8	.6	46.2					267.8
Walsh	7.3	198.1	1.3	7.6	1.8	.6	73.3					290.0
REGION 4	26.5	646.7	13.4	121.4	30.1	10.0	449.6					1,297.7
Cass	13.7	166.4	10.5	106.0	35.1	11.7	263.2					606.6
Ransom	15.2	35.3	.3	3.7	.7	.3	13.3					68.8
Richland	19.6	191.1	.8	41.8	2.2	.7	40.8					297.0
Sargent	14.4	27.7	.2	28.1	.7	.2	11.9					83.2
Steele	2.3	63.0	.1	.5	.3	.1	6.0					72.3
Traill	3.0	167.2	.3	8.6	1.2	.4	20.8					201.5
REGION 5	68.2	650.7	12.2	188.7	40.2	13.4	356.0					1,329.4

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Appendix Table 7. Continued

	(1)	(2)	(4)	(7)	(8)	(10)	(12)	(14)	(15)	(16)	(17)	
County/ REGION	Ag Lvstk	Ag Crops	Constr	Ag Proc & Misc Mfg	Retail Trade	Bus & Pers Serv	Households	Coal Mining	Elec Generation	Petr Exp/Ext	Petr Refining	Total
Barnes	13.9	90.7	2.1	4.8	6.0	2.0	38.8					158.3
Dickey	24.9	28.6	.8	2.8	1.8	.6	18.1					77.6
Foster	8.3	41.0	.4	.6	1.9	.6	12.4					65.2
Griggs	7.4	43.1	.5	1.1	1.1	.4	10.4					64.0
LaMoure	19.5	45.6	.4	.6	2.1	.7	13.9					82.8
Logan	28.6	5.7	.2	.2	.7	.2	7.6					43.2
McIntosh	25.9	3.2	.3	.8	1.1	.4	12.9					44.6
Stutsman	32.0	67.5	3.4	46.7	14.9	5.0	73.4					242.9
Wells	13.0	46.6	.9	.4	1.8	.6	19.3					82.6
REGION 6	173.5	372.0	9.0	58.0	31.4	10.5	206.8					861.2
Burleigh	28.7	4.5	13.4	51.0	23.3	7.8	237.4					366.1
Emmons	38.1	3.4	.8	1.0	.9	.3	15.7					60.2
Grant	36.4	9.4	.2	.1	1.3	.4	10.2					58.0
Kidder	29.3	4.2	.3	.6	.5	.1	8.4					43.4
McLean	19.2	42.7	2.7	12.0	2.6	.9	34.3	23.9	108.1			246.4
Mercer	18.0	5.6	3.2	.9	2.4	.8	39.9	62.5	395.5			528.8
Morton	50.8	7.5	5.3	38.5	5.2	1.8	78.2				276.6	463.9
Oliver	16.9	3.6	1.1	.1	.3	.1	7.7	21.8	66.2			117.8
Sheridan	12.8	13.1	.2	.1	.3	.1	6.9					33.5
Sioux	16.3	.9	.1	.2	.3	.1	7.9					25.8
REGION 7	266.5	94.9	27.3	104.5	37.1	12.4	446.6	108.2	569.8		276.6	1,943.9
Adams	14.2	5.1	.2	1.0	.5	.1	8.4					29.5
Billings	11.6	1.5	.1		3.6	1.2	2.6			120.3		140.9
Bowman	13.5	5.9	.5	1.4	.9	.3	11.0	10.0		18.6		62.1
Dunn	36.3	4.0	.2	.5	1.5	.5	8.2			26.8		78.0
Golden Valley	11.9	2.7	.3	.9	.2	.1	6.6			9.3		32.0
Hettinger	14.3	17.5	.4	.6	.5	.2	8.3					41.8
Slope	12.4	7.8	.1		.1		2.1			.5		23.0
Stark	29.3	8.8	3.1	36.7	8.7	2.9	57.7			17.2		164.4
REGION 8	143.5	53.3	4.9	41.1	16.0	5.3	104.9	10.0		192.7		571.7
STATE TOTAL	849.3	2,490.1	94.9	653.5	219.6	73.2	2,379.0	118.4	569.8	554.9	303.4	8,305.7

Appendix Table 8. 1989 Sales for Final Demand, by Economic Sector, for North Dakota Counties and Regions, Million Dollars (1989 Dollars)

County/ REGION	(1) Ag Lvstk	(2) Ag Crops	(4) Constr	(7) Ag Proc & Misc Mfg	(8) Retail Trade	(10) Bus & Pers Serv	(12) Households	(14) Coal Mining	(15) Elec Generation	(16) Petr Exp/Ext	(17) Petr Refining	Total
Divide	4.3	13.5	.3	.5	.7	.2	12.4			26.0		57.9
McKenzie	20.6	24.0	.7	2.1	3.0	1.0	22.5			197.0		270.9
Williams	7.6	27.1	2.6	20.1	9.3	3.1	87.1	.1		96.5	31.7	285.2
REGION 1	32.5	64.6	3.6	22.7	13.0	4.3	122.0	.1		319.5	31.7	614.0
Bottineau	5.4	55.3	1.0	5.0	3.1	1.0	51.6			44.2		166.6
Burke	3.4	15.4	.4	.8	1.4	.5	19.8			15.8		57.5
McHenry	20.7	22.9	.7	8.6	1.1	.4	33.3			.8		88.5
Mountrail	9.4	21.1	.4	11.1	2.4	.8	38.7			23.4		107.3
Pierce	9.6	16.3	.4	4.1	1.5	.5	27.8					60.2
Renville	2.5	27.7	.4	.2	.8	.3	19.5			28.9		80.3
Ward	12.8	49.7	9.7	68.9	26.2	8.7	340.8			7.5		524.3
REGION 2	63.8	208.4	13.0	98.7	36.5	12.2	531.5			120.6		1,084.7
Benson	9.8	30.6	.4	9.9	2.1	.7	33.2					86.7
Cavalier	2.5	80.4	1.4	.4	1.8	.6	44.8					131.9
Eddy	6.4	13.8	.4	.2	.7	.2	18.2					39.9
Ramsey	3.2	50.4	2.1	2.1	9.4	3.1	85.9					156.2
Rolette	7.5	19.6	1.8	9.2	3.8	1.3	55.3					98.5
Towner	2.4	46.1	.4	3.6	2.6	.9	26.4					82.4
REGION 3	31.8	240.9	6.5	25.4	20.4	6.8	263.8					595.6
Grand Forks	6.2	109.5	8.6	79.0	27.5	9.1	338.4					578.3
Nelson	5.2	33.7	.3	.9	1.4	.5	24.4					66.4
Pembina	4.5	135.1	1.0	39.2	1.8	.6	54.8					237.0
Walsh	5.6	138.9	1.1	8.3	1.8	.6	85.4					241.7
REGION 4	21.5	417.2	11.0	127.4	32.5	10.8	503.0					1,123.4
Cass	10.8	133.6	8.8	109.9	37.9	12.7	294.0					607.7
Ransom	11.2	41.9	.2	3.8	.8	.3	14.1					72.3
Richland	14.6	151.8	.6	43.2	2.4	.8	45.1					258.5
Sargent	10.9	48.8	.1	32.3	.7	.2	12.6					105.6
Steele	1.9	35.6	.1	.6	.3	.1	7.8					46.4
Traill	2.5	79.3	.3	8.4	1.3	.4	24.8					117.0
REGION 5	51.9	491.0	10.1	198.2	43.4	14.5	398.4					1,207.5

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Appendix Table 8. Continued

	(1)	(2)	(4)	(7)	(8)	(10)	(12)	(14)	(15)	(16)	(17)	
County/ REGION	Ag Lvstk	Ag Crops	Constr	Ag Proc & Misc Mfg	Retail Trade	Bus & Pers Serv	Households	Coal Mining	Elec Generation	Petr Exp/Ext	Petr Refining	Total
Barnes	11.3	70.9	2.0	5.3	7.0	2.3	44.2					143.0
Dickey	18.6	38.1	.7	3.2	2.0	.7	20.4					83.7
Foster	6.2	25.7	.4	.4	2.2	.8	14.4					50.1
Griggs	5.8	22.7	.4	1.9	1.3	.4	13.1					45.6
LaMoure	16.0	52.6	.4	.7	2.5	.8	16.7					89.7
Logan	22.6	8.6	.1	.1	.7	.2	8.5					40.8
McIntosh	19.5	11.4	.2	.4	1.2	.4	13.7					46.8
Stutsman	26.3	61.3	2.5	48.5	15.1	5.0	81.9					240.6
Wells	10.1	32.0	.7	.4	1.9	.7	22.7					68.5
REGION 6	136.4	323.3	7.4	60.9	33.9	11.3	235.6					808.8
Burleigh	21.2	5.5	11.2	58.7	27.1	9.0	266.7					399.4
Emmons	29.4	6.7	.7	.9	.9	.3	17.6					56.5
Grant	27.0	8.7	.2	.1	1.1	.3	11.6					49.0
Kidder	22.8	4.4	.2	.5	.4	.1	9.4					37.8
McLean	13.8	37.0	1.6	8.6	2.3	.8	38.9	30.9	94.4			228.3
Mercer	13.8	9.2	3.5	.6	2.0	.7	43.1	69.7	383.4			526.0
Morton	39.6	10.5	3.9	39.9	5.6	1.9	86.0				323.2	510.6
Oliver	13.0	4.0	.9	.1	.2	.1	8.2	26.6	57.8			110.9
Sheridan	9.6	11.0	.2	.1	.2	.1	9.0					30.2
Sioux	11.1	1.8	.1	.2	.3	.1	8.7					22.3
REGION 7	201.3	98.8	22.5	109.7	40.1	13.4	499.2	127.2	535.6		323.2	1,971.0
Adams	10.1	11.8	.3	.4	.5	.2	10.0					33.3
Billings	8.1	2.9	.1		4.2	1.4	3.4			134.2		154.3
Bowman	9.5	10.8	.4	1.4	.9	.3	12.3	17.7		22.7		76.0
Dunn	25.2	10.9	.2	.8	1.8	.6	9.2			27.0		75.7
Golden Valley	8.6	11.2	.3	.9	.2	.1	7.2			10.7		39.2
Hettinger	11.1	24.0	.4	.9	.6	.2	9.9					47.1
Slope	8.4	12.2			.1		2.4			.4		23.5
Stark	22.0	12.4	2.4	38.8	9.0	3.0	66.0			17.0		170.6
REGION 8	103.0	96.2	4.1	43.2	17.3	5.8	120.4	17.7		212.0		619.7
STATE	642.2	1,940.4	78.2	686.2	237.1	79.1	2,673.9	145.0	535.6	652.1	354.9	8,024.7

Appendix Table 9. 1990 Sales for Final Demand, by Economic Sector, for North Dakota Counties and Regions, Million Dollars (1990 Dollars)

County/ REGION	(1) Ag Lvstk	(2) Ag Crops	(4) Constr	(7) Ag Proc & Misc Mfg	(8) Retail Trade	(10) Bus & Pers Serv	(12) Households	(14) Coal Mining	(15) Elec Generation	(16) Petr Exp/Ext	(17) Petr Refining	Total
Divide	5.3	19.9	.3	.5	.8	.3	13.0			25.9		66.0
McKenzie	28.0	28.8	1.1	2.4	2.7	.9	25.6			229.7		319.2
Williams	10.2	32.5	3.2	20.2	11.0	3.6	93.5	.1		107.0	38.8	320.1
REGION 1	43.5	81.2	4.6	23.1	14.5	4.8	132.1	.1		362.6	38.8	705.3
Bottineau	6.5	64.8	1.1	5.7	2.3	.8	58.0			51.8		191.0
Burke	4.5	24.8	.6	1.0	1.5	.5	20.9			17.6		71.4
McHenry	26.8	30.6	.9	6.5	1.1	.4	36.4			1.0		103.7
Mountrail	13.2	32.3	.5	11.3	3.3	1.1	41.6			43.5		146.8
Pierce	14.5	29.0	.6	4.8	1.9	.6	31.4					82.8
Renville	3.2	34.9	.5	.4	.9	.3	19.8			36.4		96.4
Ward	18.6	65.3	12.4	70.8	29.5	9.8	373.4			6.8		586.6
REGION 2	87.3	281.7	16.6	100.5	40.5	13.5	581.5			157.1		1,278.7
Benson	11.7	55.5	.7	9.7	1.8	.6	36.5					116.5
Cavalier	3.3	76.0	1.8	.5	2.8	1.0	49.9					135.3
Eddy	8.5	23.4	.7	.1	.8	.3	20.2					54.0
Ramsey	4.0	55.7	3.0	2.3	10.7	3.6	90.4					169.7
Rolette	9.2	20.5	1.7	9.8	4.0	1.3	59.7					106.2
Towner	2.8	42.2	.5	3.5	2.5	.8	28.6					80.9
REGION 3	39.5	273.3	8.4	25.9	22.6	7.6	285.3					662.6
Grand Forks	5.5	125.2	10.8	80.6	30.6	10.2	360.0					622.9
Nelson	5.8	57.2	.3	.8	1.5	.5	26.2					92.3
Pembina	5.0	130.9	1.6	39.4	2.1	.7	65.1					244.8
Walsh	7.5	114.9	1.4	8.9	1.8	.6	91.7					226.8
REGION 4	23.8	428.2	14.1	129.7	36.0	12.0	543.0					1,186.8
Cass	13.7	178.0	11.4	114.3	42.0	14.0	318.2					691.6
Ransom	14.3	41.9	.2	3.4	1.0	.3	16.2					77.3
Richland	18.8	140.6	.8	45.6	2.5	.8	48.3					257.4
Sargent	13.6	43.0	.1	29.2	.7	.2	16.3					103.1
Steele	2.3	49.5	.1	.5	.5	.2	7.5					60.6
Traill	2.9	98.4	.3	8.8	1.4	.5	25.6					137.9
REGION 5	65.6	551.4	12.9	201.8	48.1	16.0	432.1					1,327.9

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Appendix Table 9. Continued

	(1)	(2)	(4)	(7)	(8)	(10)	(12)	(14)	(15)	(16)	(17)	
County/ REGION	Ag Lvstk	Ag Crops	Constr	Ag Proc & Misc Mfg	Retail Trade	Bus & Pers Serv	Households	Coal Mining	Elec Generation	Petr Exp/Ext	Petr Refining	Total
Barnes	14.2	101.1	2.7	6.7	7.4	2.5	47.9					182.5
Dickey	24.4	42.0	.8	3.2	2.4	.8	24.0					97.6
Foster	7.8	40.1	.4	.5	2.3	.8	15.5					67.4
Griggs	7.1	37.2	.4	2.5	1.3	.4	12.3					61.2
LaMoure	20.6	57.9	.5	.7	3.1	1.0	20.3					104.1
Logan	28.1	12.9	.1	.1	.7	.2	9.5					51.6
McIntosh	25.2	13.0	.3	1.3	1.4	.5	15.5					57.2
Stutsman	29.5	86.6	3.3	46.6	16.8	5.6	88.5					276.9
Wells	12.4	63.1	1.0	.4	2.2	.7	25.7					105.5
REGION 6	169.3	453.9	9.5	62.0	37.6	12.5	259.2					1,004.0
Burleigh	26.7	13.7	13.4	69.4	28.8	9.6	287.8					449.4
Emmons	36.9	8.8	1.0	1.0	.9	.3	18.4					67.3
Grant	32.6	5.6	.2	.3	1.2	.4	12.4					52.7
Kidder	28.8	10.9	.2	.6	1.1	.4	11.4					53.4
McLean	17.5	48.2	2.1	.9	2.8	.9	42.9	30.3	101.5			247.1
Mercer	17.4	8.9	4.5	1.3	2.6	.9	46.1	66.6	380.0			528.3
Morton	49.8	7.0	6.5	37.8	6.0	2.0	92.5				389.0	590.6
Oliver	15.6	3.2	.7	.1	.3	.1	9.1	26.5	62.1			117.7
Sheridan	11.7	18.0	.2	.1	.3	.1	10.2					40.6
Sioux	14.5	1.9	.1	.2	.4	.1	10.1					27.3
REGION 7	251.5	126.2	28.9	111.7	44.4	14.8	540.9	123.4	543.6		389.0	2,174.4
Adams	13.4	8.0	.2	.4	.6	.2	11.3					34.1
Billings	11.5	2.5	.2		4.2	1.4	4.1			168.6		192.5
Bowman	11.1	5.5	.5	1.7	1.2	.4	12.8	18.7		27.8		79.7
Dunn	33.6	10.7	.4	.9	1.3	.4	11.1			32.4		90.8
Golden Valley	9.9	7.6	.3	.9	.4	.1	8.7			11.8		39.7
Hettinger	14.0	20.2	.5	1.0	.6	.2	11.9					48.4
Slope	12.2	7.3			.2	.1	2.9			.4		23.1
Stark	27.3	11.6	3.1	39.0	10.7	3.6	69.6			18.7		183.6
REGION 8	133.0	73.4	5.2	43.9	19.2	6.4	132.4	18.7		259.7		691.9
STATE TOTAL	813.5	2,269.3	100.2	698.6	262.9	87.6	2,906.5	142.2	543.6	779.4	427.8	9,031.6

Appendix Table 10. 1991 Sales for Final Demand, by Economic Sector, for North Dakota Counties and Regions, Million Dollars (1991 Dollars)

County/ REGION	(1) Ag Lvstk	(2) Ag Crops	(4) Constr	(7) Ag Proc & Misc Mfg	(8) Retail Trade	(10) Bus & Pers Serv	(12) Households	(14) Coal Mining	(15) Elec Generation	(16) Petr Exp/Ext	(17) Petr Refining	Total
Divide	5.5	27.7	.3	.5	.9	.3	13.0			21.7		69.9
McKenzie	28.4	26.6	1.3	2.5	3.2	1.1	25.6			181.7		270.4
Williams	10.3	40.7	3.6	21.2	11.9	3.9	93.2	.1		87.4	34.7	307.0
REGION 1	44.2	95.0	5.2	24.2	16.0	5.3	131.8	.1		290.8	34.7	647.3
Bottineau	6.6	54.9	1.2	6.0	2.4	.8	58.8			43.3		174.0
Burke	4.5	24.4	.7	1.0	1.6	.5	21.2			14.4		68.3
McHenry	25.8	33.7	1.1	6.8	1.1	.4	36.9			.9		106.7
Mountrail	11.8	33.4	.5	11.8	3.5	1.1	42.1			25.4		129.6
Pierce	14.6	27.1	.7	5.0	2.0	.7	31.9					82.0
Renville	3.6	32.2	.5	.4	.9	.3	20.1			30.7		88.7
Ward	17.7	61.4	14.1	74.0	33.2	11.1	378.6			4.0		594.1
REGION 2	84.6	267.1	18.8	105.0	44.7	14.9	589.6			118.7		1,243.4
Benson	12.0	50.4	.7	10.1	2.1	.7	37.4					113.4
Cavalier	3.2	92.0	2.1	.6	3.2	1.1	51.2					153.4
Eddy	8.3	17.7	.8	.1	.9	.3	20.7					48.8
Ramsey	3.8	58.5	3.5	2.4	11.5	3.8	92.8					176.3
Rolette	8.8	22.9	1.9	10.2	4.5	1.5	61.3					111.1
Towner	3.2	53.7	.5	3.6	2.8	.9	29.3					94.0
REGION 3	39.3	295.2	9.5	27.0	25.0	8.3	292.7					697.0
Grand Forks	5.1	141.4	12.2	84.3	34.1	11.4	369.5					658.0
Nelson	5.9	50.7	.4	.9	1.6	.5	26.9					86.9
Pembina	5.1	156.2	1.8	41.2	2.2	.8	66.8					274.1
Walsh	6.1	170.2	1.6	9.2	1.9	.6	94.1					283.7
REGION 4	22.2	518.5	16.0	135.6	39.8	13.3	557.3					1,302.7
Cass	13.1	179.6	12.9	119.4	46.5	15.4	326.6					713.5
Ransom	14.1	50.1	.3	3.5	1.2	.4	16.7					86.3
Richland	17.8	155.8	.8	47.7	2.7	.9	49.6					275.3
Sargent	12.8	52.3	.2	30.5	.8	.3	16.7					113.6
Steele	2.8	48.2	.1	.5	.5	.2	7.7					60.0
Traill	2.3	96.3	.3	9.2	1.5	.5	26.3					136.4
REGION 5	62.9	582.3	14.6	210.8	53.2	17.7	443.6					1,385.1

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Appendix Table 10. Continued

	(1)	(2)	(4)	(7)	(8)	(10)	(12)	(14)	(15)	(16)	(17)	
County/ REGION	Ag Lvstk	Ag Crops	Constr	Ag Proc & Misc Mfg	Retail Trade	Bus & Pers Serv	Households	Coal Mining	Elec Generation	Petr Exp/Ext	Petr Refining	Total
Barnes	13.9	92.1	3.1	7.0	8.2	2.8	49.0					176.1
Dickey	24.1	43.7	.8	3.4	2.5	.8	24.6					99.9
Foster	7.5	37.9	.5	.5	2.5	.8	15.8					65.5
Griggs	7.2	38.5	.5	2.6	1.5	.5	12.7					63.5
LaMoure	19.1	56.6	.5	.8	3.4	1.1	20.8					103.1
Logan	28.5	14.3		.1	.8	.3	9.8					53.8
McIntosh	26.4	18.9	.3	1.3	1.5	.5	15.9					64.8
Stutsman	31.0	89.3	3.8	48.7	18.7	6.2	90.7					288.4
Wells	12.6	54.1	1.2	.4	2.4	.8	26.3					97.8
REGION 6	171.1	445.4	10.7	64.8	41.5	13.8	265.6					1,012.9
Burleigh	25.9	15.4	15.1	72.5	32.7	10.9	295.7					468.2
Emmons	37.3	20.2	1.1	1.0	1.0	.3	19.0					79.9
Grant	31.0	16.9	.3	.3	1.1	.4	12.8					62.8
Kidder	30.3	10.8	.2	.6	1.1	.4	11.7					55.1
McLean	18.4	45.2	2.4	1.0	3.0	1.0	44.1	29.9	108.5			253.5
Mercer	17.0	9.6	5.1	1.4	2.9	1.0	47.3	59.9	390.5			534.7
Morton	47.6	14.6	7.3	39.5	6.2	2.1	95.0				349.6	561.9
Oliver	14.9	5.0	.8	.1	.3	.1	9.3	29.3	66.5			126.3
Sheridan	11.9	15.4	.2	.1	.4	.1	10.4					38.5
Sioux	12.8	2.5	.1	.2	.4	.1	10.4					26.5
REGION 7	247.1	155.6	32.6	116.7	49.1	16.4	555.7	119.1	565.5		349.6	2,207.4
Adams	13.2	7.1	.3	.5	.8	.3	11.6					33.8
Billings	10.6	3.3	.2		4.6	1.5	4.2			155.3		179.7
Bowman	12.4	9.1	.6	1.8	1.4	.5	13.2	21.8		23.7		84.5
Dunn	32.0	11.2	.5	.9	2.0	.7	11.4			32.8		91.5
Golden Valley	10.7	10.8	.3	.9	.4	.1	8.9			9.0		41.1
Hettinger	13.0	22.0	.6	1.0	.7	.2	12.2					49.7
Slope	11.3	13.0			.2	.1	3.0			.4		28.0
Stark	28.0	17.5	3.4	40.8	11.1	3.7	71.5			15.1		191.1
REGION 8	131.2	94.0	5.9	45.9	21.2	7.1	136.0	21.8		236.3		699.4
STATE TOTAL	802.6	2,453.1	113.3	730.0	290.5	96.8	2,972.3	141.0	565.5	645.8	384.3	9,195.2

Appendix Table 11. Sales for Final Demand, by Type of Basic Sector Activity, North Dakota Counties and Regions, Million 1991 Constant Dollars, 1960-1991

County/ REGION	Agriculture			Energy			Federal Activities			Manufacturing			Tourism			Total		
	1991	1960	Percent Change 1960-91	1991	1960	Percent Change 1960-91	1991	1960	Percent Change 1960-91	1991	1960	Percent Change 1960-91	1991	1960	Percent Change 1960-91	1991	1960	Percent Change 1960-91
Divide	33.2	31.3	6.0	21.7	2.1	953.4	13.3	4.9	169.0	0.5	0.8	-39.3	1.2	0.0	-	69.9	39.1	78.6
McKenzie	55.0	38.3	43.5	181.7	54.8	231.6	26.9	6.2	335.3	2.5	1.2	102.3	4.3	1.2	247.9	270.4	101.8	165.7
Williams	51.0	42.4	20.2	122.2	67.6	80.9	96.8	24.7	291.6	21.2	8.7	145.0	15.8	3.3	379.4	307.0	146.7	109.3
REGION 1	139.2	112.1	24.2	325.6	124.4	161.7	137.0	35.8	282.2	24.2	10.7	125.9	21.3	4.5	370.0	647.3	287.6	125.1
Bottineau	61.5	52.3	17.5	43.3	19.0	128.5	60.0	15.2	293.6	6.0	2.1	191.3	3.2	1.2	158.9	174.0	89.8	93.7
Burke	28.9	27.2	6.3	14.4	23.9	-39.7	21.9	7.4	195.3	1.0	0.8	21.4	2.1	0.4	409.7	68.3	59.7	14.3
McHenry	59.5	48.2	23.4	0.9	0.4	118.4	38.0	12.8	197.5	6.8	1.6	312.6	1.5	0.4	264.1	106.7	63.4	68.2
Mountrail	45.2	40.0	13.1	25.4	8.2	208.3	42.6	11.5	269.3	11.8	0.8	1,332.0	4.6	0.8	458.3	129.6	61.4	111.1
Pierce	41.7	35.0	19.1	0.0	0.0	-	32.6	8.2	295.6	5.0	1.2	304.5	2.7	0.4	555.3	82.0	44.9	82.6
Renville	35.8	26.8	33.7	30.7	17.7	73.3	20.6	7.0	194.1	0.4	0.4	-2.9	1.2	0.4	191.3	88.7	52.3	69.5
Ward	79.1	66.3	19.2	4.0	0.0	-	392.7	89.8	337.2	74.0	29.3	153.0	44.3	9.1	388.7	594.1	194.5	205.5
REGION 2	351.7	295.8	18.9	118.7	69.2	71.5	608.4	152.0	300.2	105.0	36.3	189.6	59.6	12.8	366.6	1,243.4	566.1	119.6
Benson	62.4	52.7	18.3	0.0	0.0	-	38.1	10.3	269.9	10.1	0.8	1,125.7	2.8	0.4	579.6	113.4	64.3	76.4
Cavalier	95.2	56.4	68.7	0.0	0.0	-	53.3	11.9	346.1	0.6	0.4	45.6	4.3	0.4	943.7	153.4	69.2	121.6
Eddy	26.0	23.1	12.7	0.0	0.0	-	21.5	7.4	189.9	0.1	0.8	-87.9	1.2	0.4	191.3	48.8	31.7	53.8
Ramsey	62.3	29.3	113.0	0.0	0.0	-	96.3	25.5	277.0	2.4	4.5	-47.0	15.3	3.3	364.2	176.3	62.6	181.5
Rolette	31.7	24.7	28.2	0.0	0.0	-	63.2	12.8	394.8	10.2	4.5	125.1	6.0	1.2	385.4	111.1	43.3	156.8
Towner	56.9	42.4	34.1	0.0	0.0	-	29.8	8.2	261.7	3.6	1.2	191.3	3.7	1.2	199.4	94.0	53.1	76.9
REGION 3	334.5	228.7	46.3	0.0	0.0	-	302.2	76.2	296.5	27.0	12.4	118.4	33.3	7.0	375.4	697.0	324.2	115.0
Grand Forks	146.5	100.9	45.1	0.0	0.0	-	381.7	117.4	225.1	84.3	29.3	188.2	45.5	9.9	360.2	658.0	257.5	155.5
Nelson	56.6	42.8	32.1	0.0	0.0	-	27.3	11.9	128.5	0.9	0.4	118.4	2.1	0.4	409.7	86.9	55.6	56.2
Pembina	161.3	89.4	80.4	0.0	0.0	-	68.6	22.2	208.3	41.2	4.1	900.0	3.0	0.4	628.2	274.1	116.2	135.9
Walsh	176.3	103.0	71.2	0.0	0.0	-	95.7	36.3	164.0	9.2	2.1	346.6	2.5	0.8	203.4	283.7	142.1	99.6
REGION 4	540.7	336.2	60.8	0.0	0.0	-	573.3	187.9	205.2	135.6	35.8	278.3	53.1	11.5	360.3	1,302.7	571.4	128.0
Cass	192.7	112.9	70.7	0.0	0.0	-	339.5	116.6	191.2	119.4	72.5	64.7	61.9	13.2	369.5	713.5	315.2	126.4
Ransom	64.2	54.0	19.0	0.0	0.0	-	17.0	7.4	129.2	3.5	2.9	21.4	1.6	0.4	288.3	86.3	64.7	33.4
Richland	173.6	85.7	102.6	0.0	0.0	-	50.4	20.2	149.7	47.7	3.7	1,186.4	3.6	1.2	191.3	275.3	110.8	148.4
Sargent	65.1	39.6	64.6	0.0	0.0	-	16.9	5.8	193.0	30.5	2.9	957.6	1.1	0.0	-	113.6	48.2	135.7
Steele	51.0	39.1	30.3	0.0	0.0	-	7.8	4.9	57.8	0.5	0.4	21.4	0.7	0.0	-	60.0	44.5	34.8
Traill	98.6	63.0	56.4	0.0	0.0	-	26.6	11.9	122.6	9.2	1.6	458.3	2.0	0.4	385.4	136.4	77.0	77.0
REGION 5	645.2	394.3	63.6	0.0	0.0	-	458.2	166.9	174.6	210.8	84.0	150.8	70.9	15.2	365.1	1,385.1	660.4	109.7

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Appendix Table 11. Continued

County/ REGION	Agriculture			Energy			Federal Activities			Manufacturing			Tourism			Total		
	1991	1960	Percent Change 1960-91	1991	1960	Percent Change 1960-91	1991	1960	Percent Change 1960-91	1991	1960	Percent Change 1960-91	1991	1960	Percent Change 1960-91	1991	1960	Percent Change 1960-91
Barnes	106.0	67.6	56.9	0.0	0.0	-	52.1	20.6	152.9	7.0	6.6	6.2	11.0	2.1	434.0	176.1	96.8	81.9
Dickey	67.8	42.0	61.3	0.0	0.0	-	25.4	7.4	242.5	3.4	2.1	65.0	3.3	0.8	300.5	99.9	52.3	90.9
Foster	45.4	30.5	48.9	0.0	0.0	-	16.3	7.0	132.7	0.5	1.6	-69.7	3.3	0.8	300.5	65.5	40.0	63.9
Griggs	45.7	30.5	49.9	0.0	0.0	-	13.2	4.9	167.0	2.6	2.5	5.2	2.0	0.8	142.7	63.5	38.7	64.0
LaMoure	75.7	49.0	54.4	0.0	0.0	-	21.3	8.2	158.5	0.8	1.2	-35.3	4.5	0.8	446.1	102.3	59.3	72.4
Logan	42.8	32.5	31.5	0.0	0.0	-	9.8	3.7	164.3	0.1	0.8	-87.9	1.1	0.4	167.0	53.8	37.5	43.5
McIntosh	45.3	37.1	22.2	0.0	0.0	-	16.2	4.9	227.7	1.3	1.6	-21.1	2.0	0.4	385.4	64.8	44.1	47.0
Stutsman	120.3	83.2	44.5	0.0	0.0	-	94.5	31.7	197.9	48.7	13.6	258.2	24.9	4.9	403.6	288.4	133.5	116.0
Wells	66.7	59.7	11.7	0.0	0.0	-	27.5	9.9	178.1	0.4	2.1	-80.6	3.2	0.8	288.3	97.8	72.5	34.9
REGION 6	615.7	432.2	42.5	0.0	0.0	-	276.3	98.5	180.6	64.8	32.1	101.6	55.3	11.9	362.8	1,012.1	574.7	76.1
Burleigh	41.3	37.5	10.2	0.0	0.0	-	310.8	69.2	349.0	72.5	24.7	193.3	43.6	8.7	403.9	468.2	140.1	234.2
Emmons	57.5	45.3	26.9	0.0	0.0	-	20.1	7.4	171.0	1.0	0.8	21.4	1.3	0.4	215.5	79.9	54.0	48.0
Grant	47.9	35.4	35.2	0.0	0.0	-	13.1	5.8	127.1	0.3	0.8	-63.6	1.5	0.4	264.1	62.8	42.4	48.0
Kidder	41.1	30.1	36.7	0.0	0.0	-	11.9	5.8	106.3	0.6	1.2	-51.5	1.5	0.0	-	55.1	37.1	48.6
McLean	63.6	61.8	2.9	138.4	0.4	33,492.2	46.5	16.5	182.2	1.0	0.8	21.4	4.0	1.2	223.6	253.5	80.8	213.9
Mercer	26.6	27.6	-3.6	450.4	2.1	21,764.1	52.4	8.7	505.6	1.4	1.2	13.3	3.9	1.2	215.5	534.7	40.8	1,210.9
Morton	62.2	40.4	54.1	349.6	152.9	128.7	102.3	26.4	288.0	39.5	14.4	173.9	8.3	1.6	403.6	561.9	235.7	138.4
Oliver	19.9	18.1	9.8	95.8	0.0	-	10.1	3.7	172.4	0.1	0.4	-75.7	0.4	0.0	-	126.3	22.2	467.7
Sheridan	27.3	30.5	-10.5	0.0	0.0	-	10.6	4.1	157.3	0.1	1.2	-91.9	0.5	0.0	-	38.5	35.8	7.4
Sioux	15.3	12.4	23.8	0.0	0.0	-	10.5	3.7	183.2	0.2	2.1	-90.3	0.5	0.0	-	26.5	18.1	46.2
REGION 7	402.7	339.1	18.8	1,034.2	155.3	565.8	588.3	151.2	289.1	116.7	47.8	144.2	65.5	13.6	381.8	2,207.4	707.0	212.2
Adams	20.3	21.0	-3.4	0.0	0.0	-	11.9	4.5	162.6	0.5	0.8	-39.3	1.1	0.0	-	33.8	26.4	28.2
Billings	13.9	10.7	29.8	155.3	2.9	5,284.9	4.4	0.8	434.0	0.0	0.0	-	6.1	1.6	270.1	179.7	16.1	1,018.4
Bowman	21.5	22.7	-5.1	45.5	2.9	1,477.7	13.8	4.5	204.5	1.8	0.4	336.9	1.9	0.4	361.2	84.5	30.9	173.5
Dunn	43.2	35.0	23.4	32.8	0.0	-	11.9	3.3	261.0	0.9	0.4	118.4	2.7	0.8	227.7	91.5	39.6	131.3
Golden Valley	21.5	13.6	58.1	9.0	0.0	-	9.2	2.9	219.0	0.9	0.8	9.2	0.5	0.0	-	41.1	17.3	137.5
Hettinger	35.0	35.4	-1.2	0.0	0.0	-	12.8	4.9	158.9	1.0	0.4	142.7	0.9	0.0	-	49.7	40.8	21.8
Slope	24.3	19.8	22.9	0.4	0.0	-	3.0	1.2	142.7	0.0	0.0	-	0.3	0.0	-	28.0	21.0	33.3
Stark	45.5	34.6	31.5	15.1	0.4	3,565.0	74.9	19.0	295.2	40.8	10.3	296.1	14.8	3.3	349.0	191.1	67.6	182.8
REGION 8	225.2	192.8	16.8	258.1	6.2	4,076.4	141.9	41.2	244.4	45.9	13.2	248.1	28.3	6.2	357.9	699.4	259.6	169.5
STATE TOTAL	3,254.9	2,331.1	39.6	1,736.6	355.1	389.0	3,085.6	909.7	239.2	730.0	272.3	168.1	387.3	82.8	367.7	9,194.4	3,951.1	132.7

